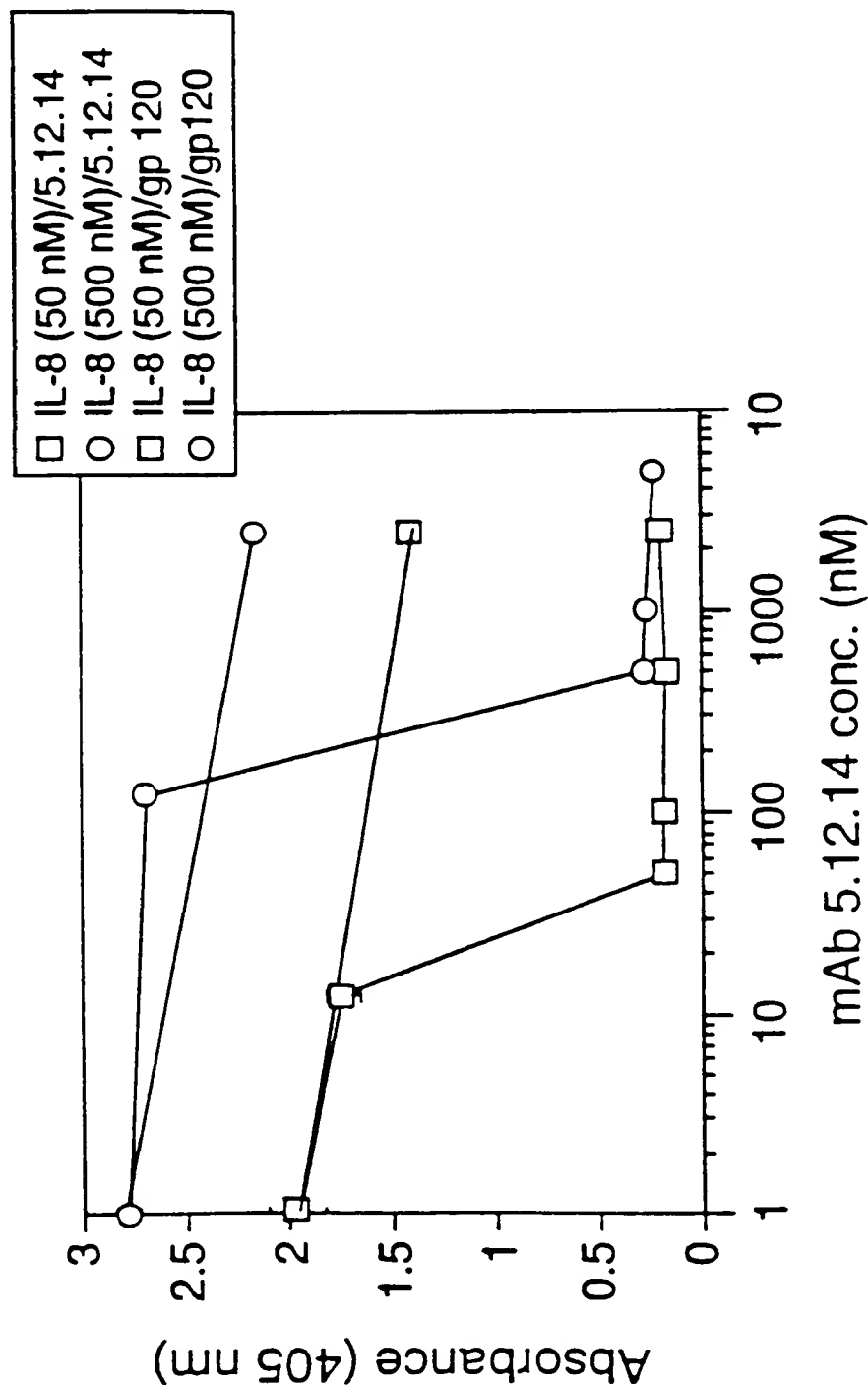
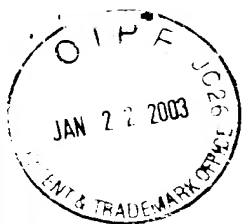




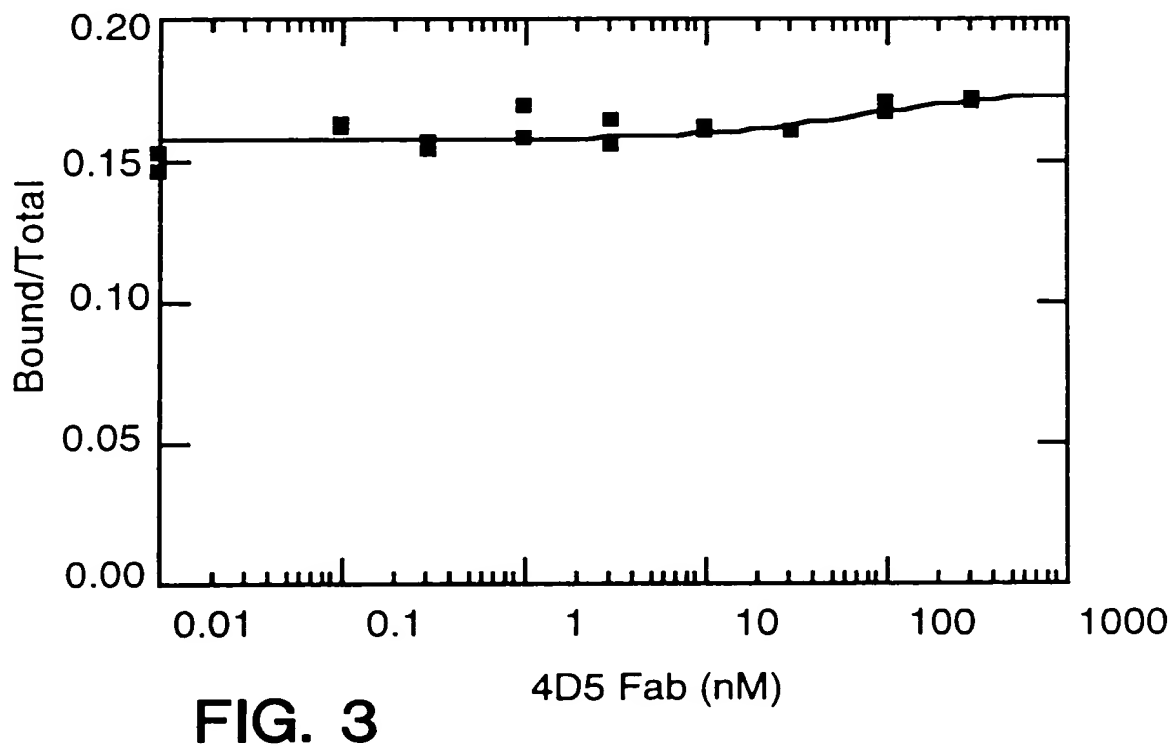
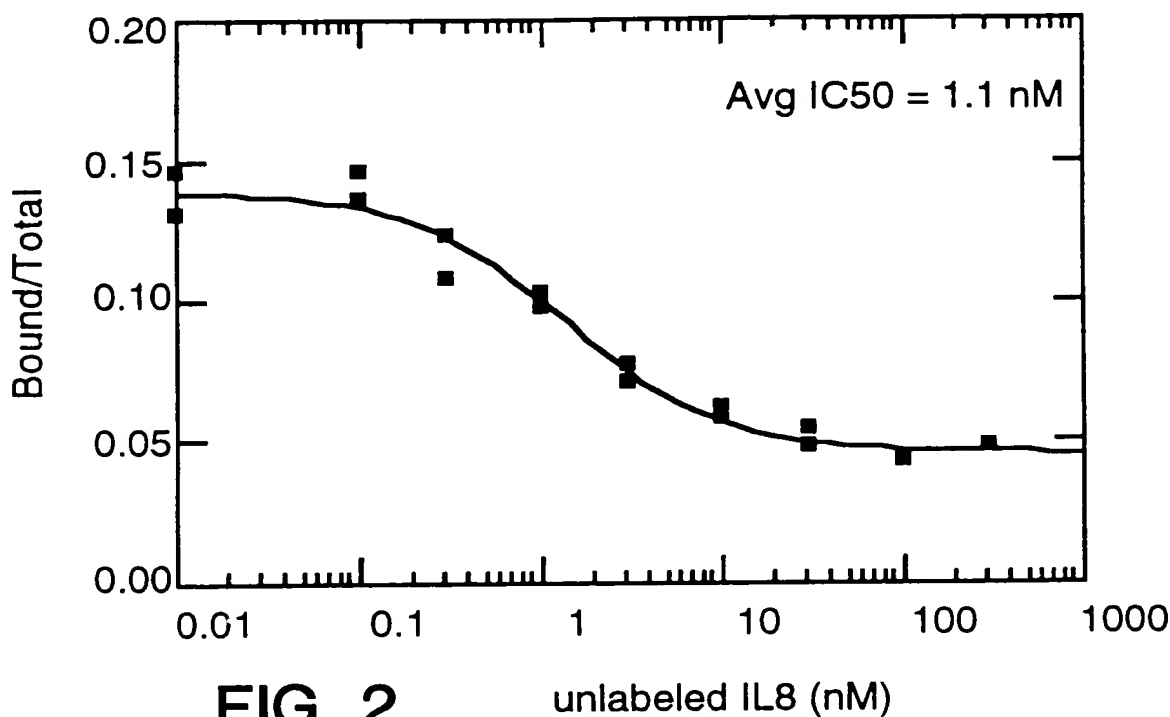
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FIG. 1





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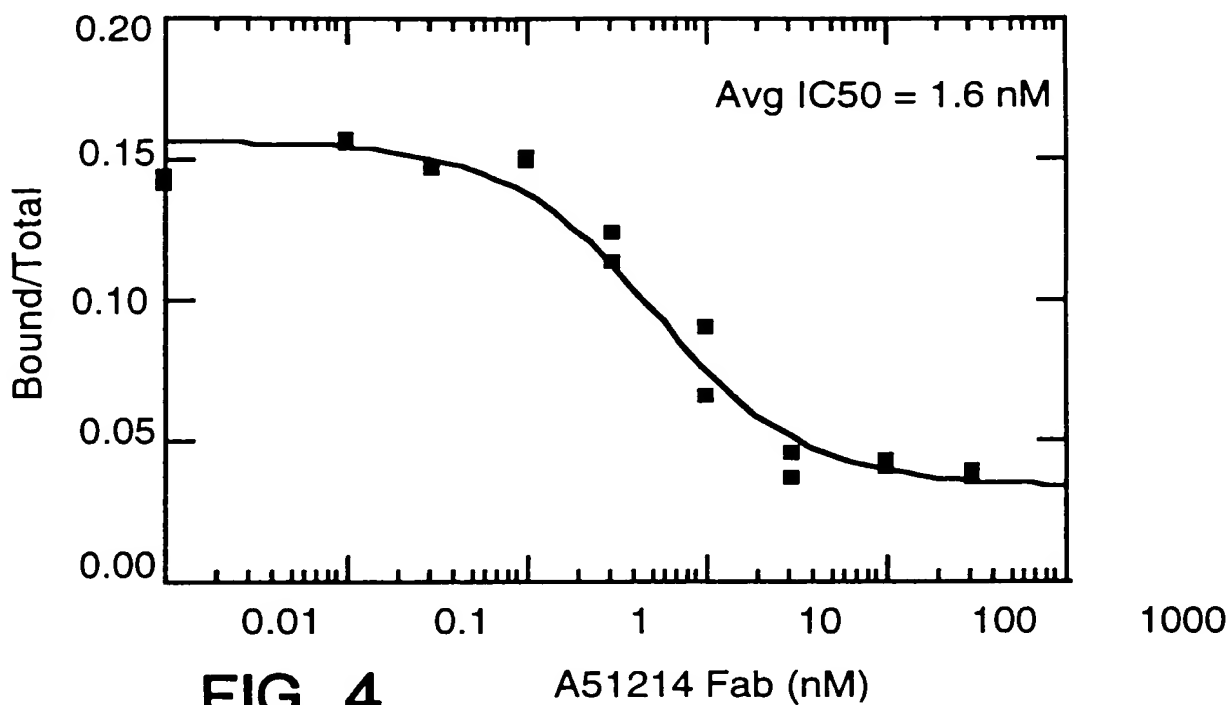


FIG. 4

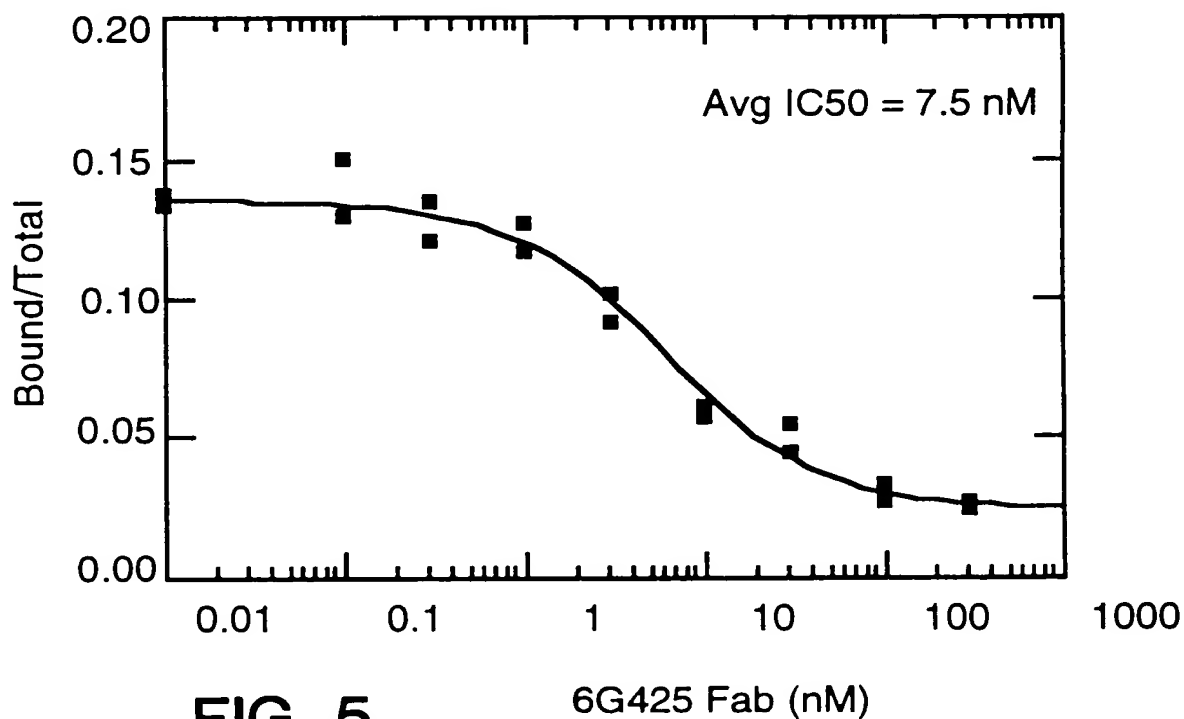


FIG. 5



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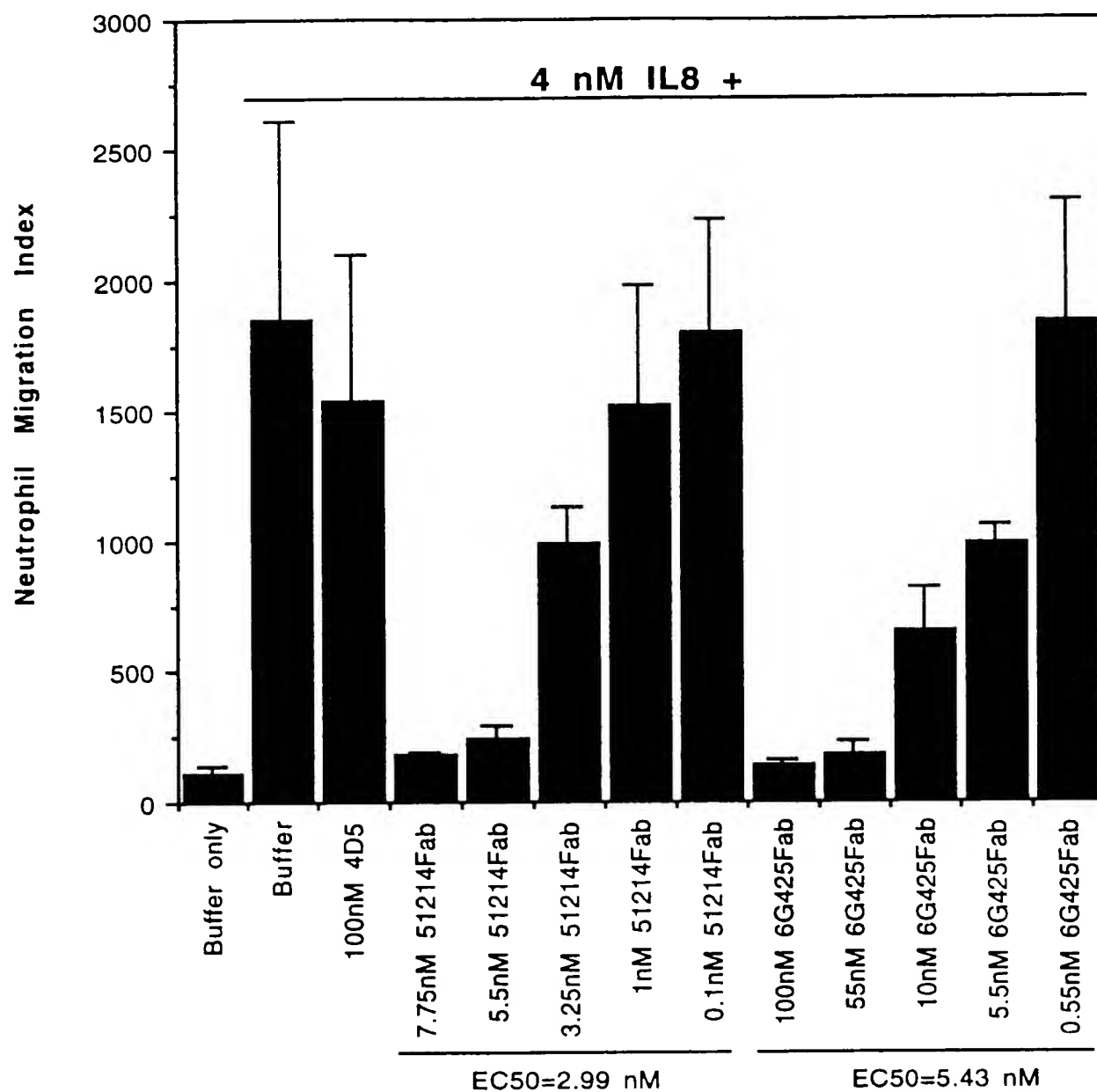


FIG. 6

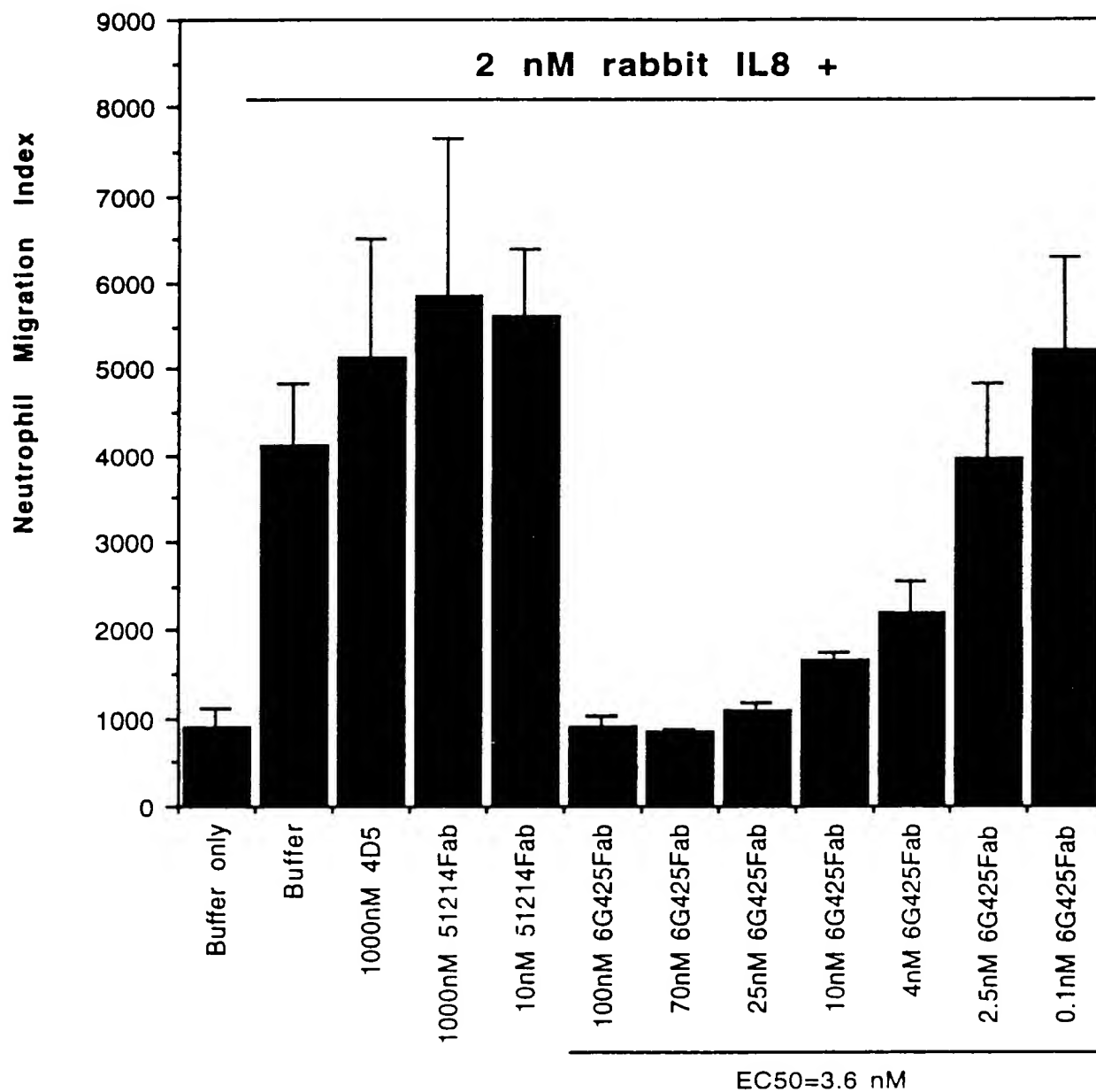
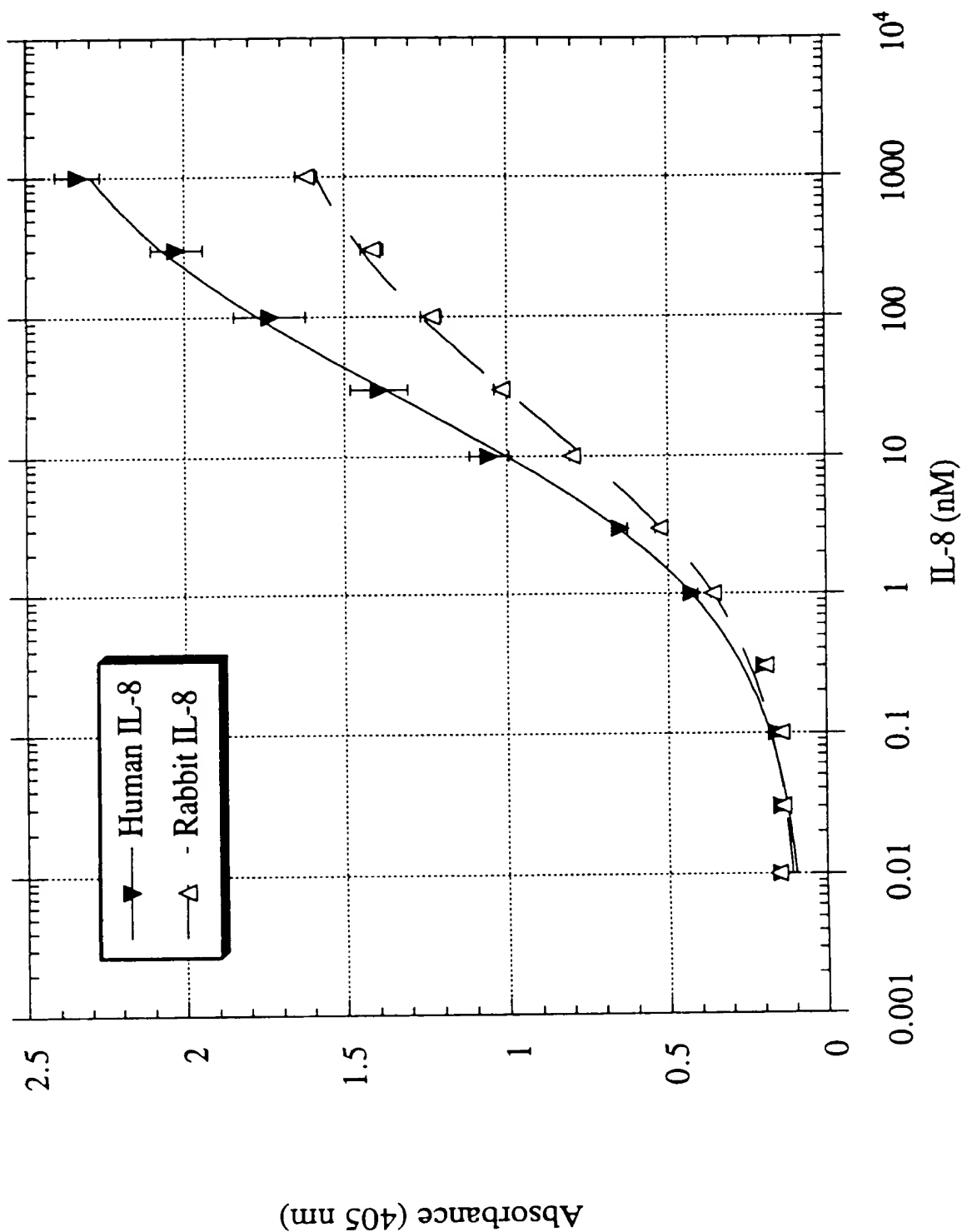


FIG. 7

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FIG. 8





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FIG. 9

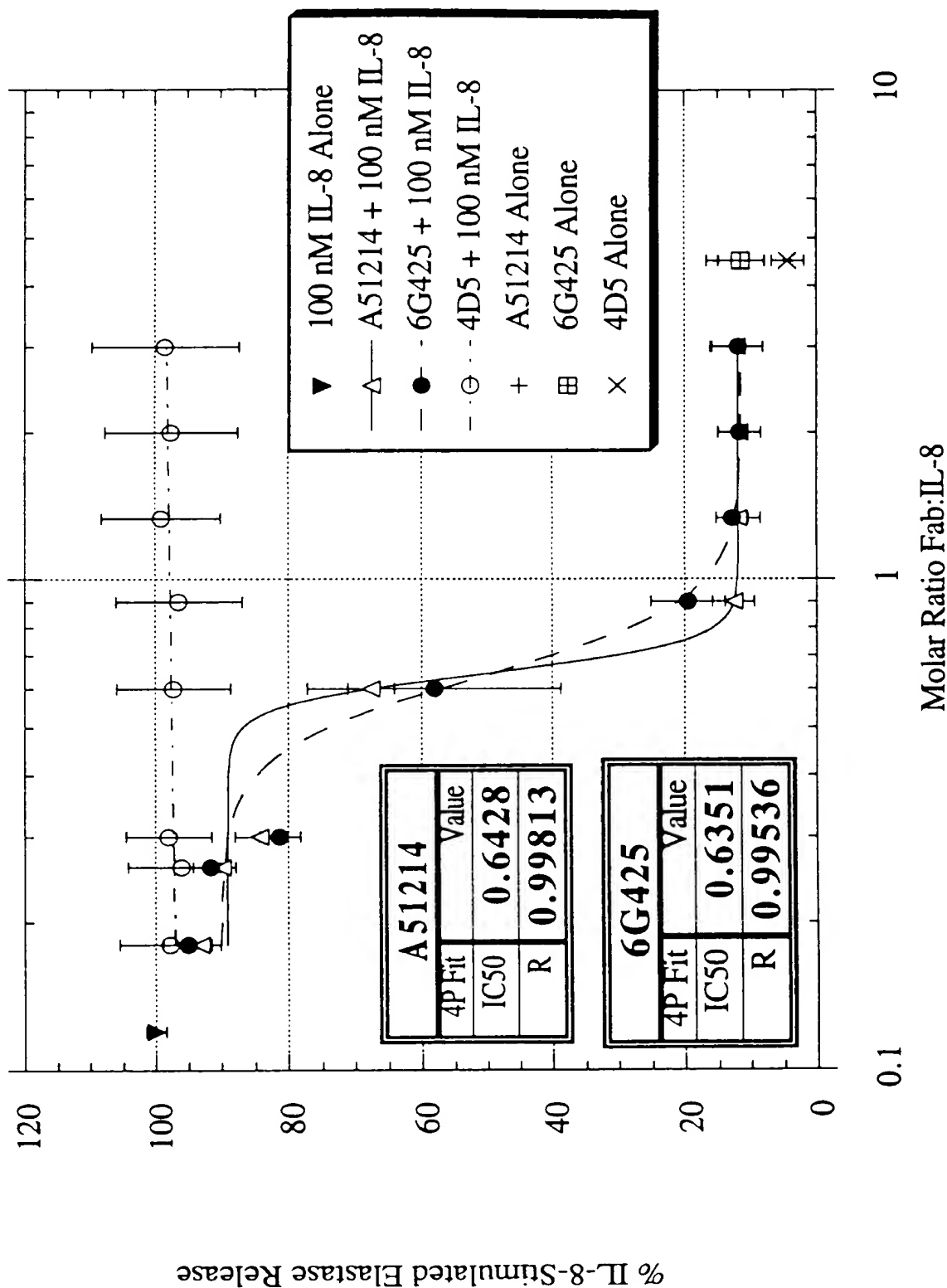
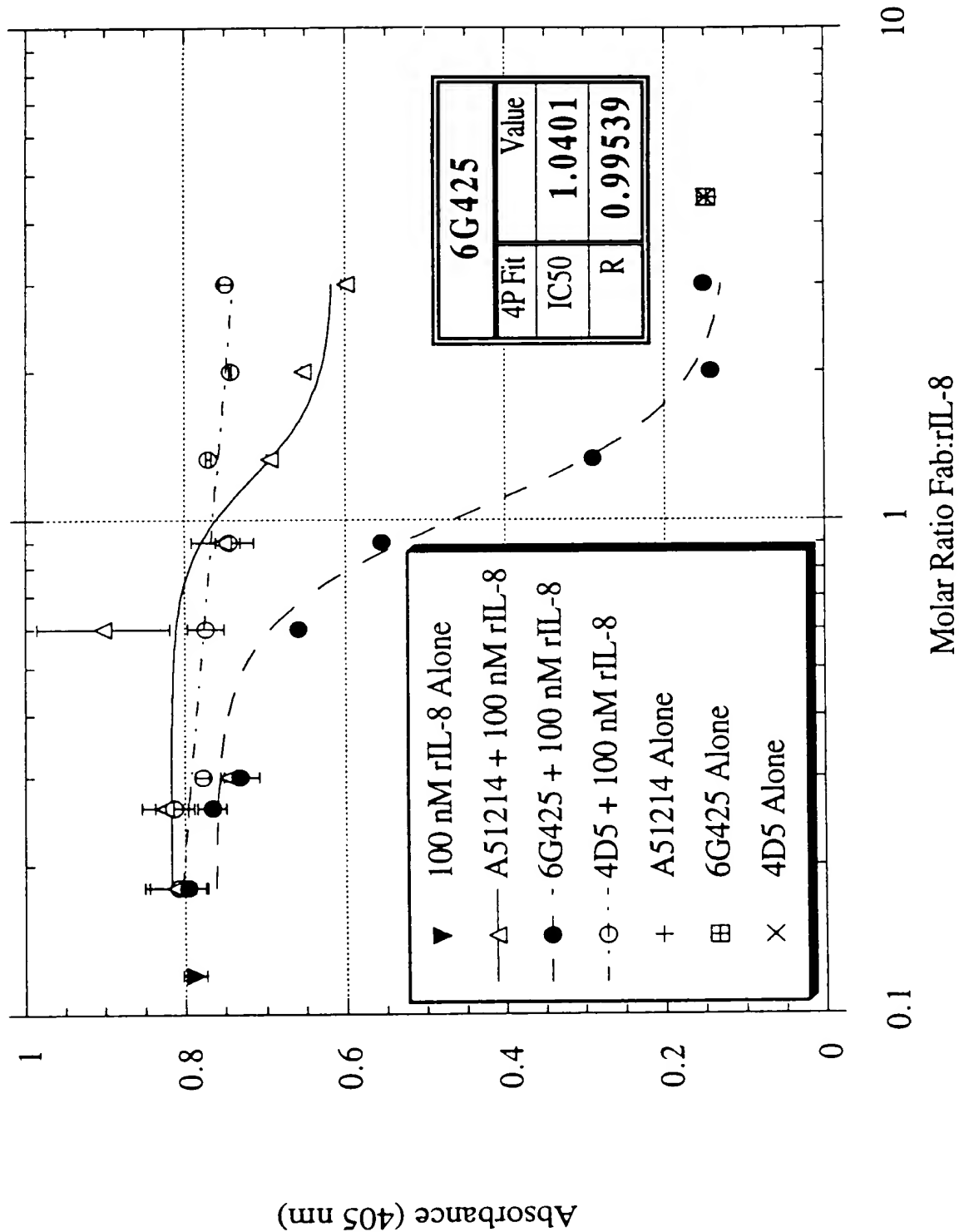




FIG. 10



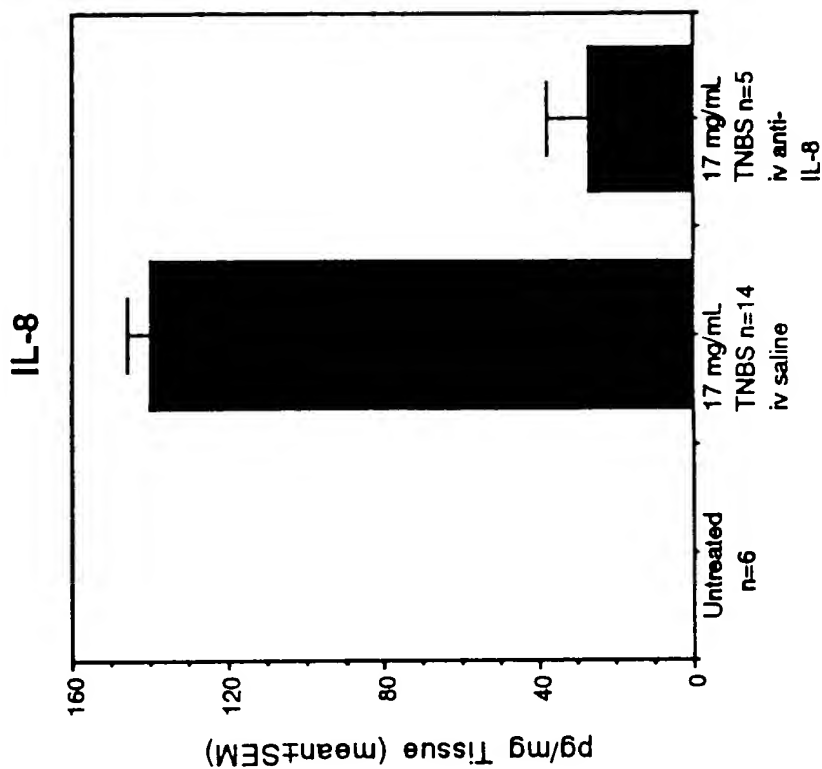


FIG. 11B

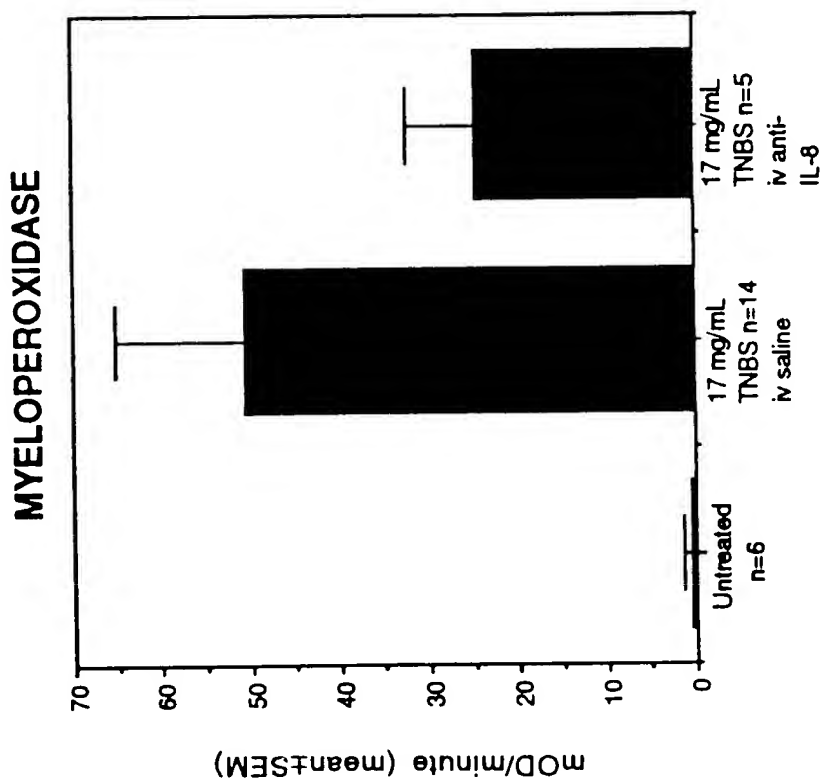


FIG. 11A

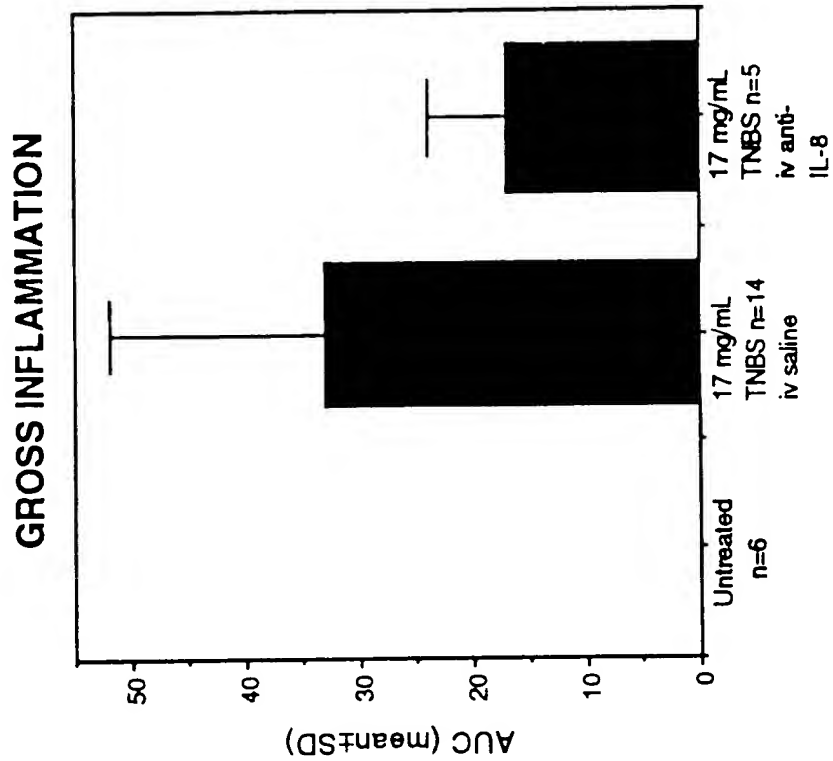
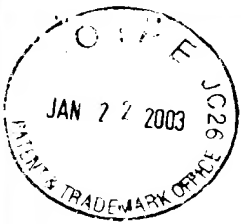


FIG. 11D

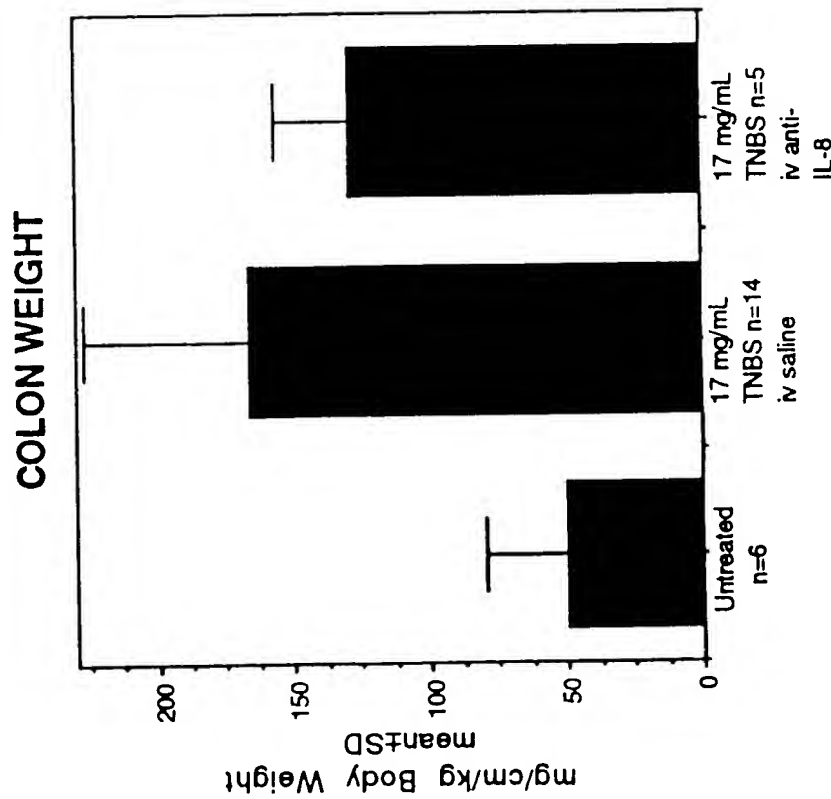


FIG. 11C



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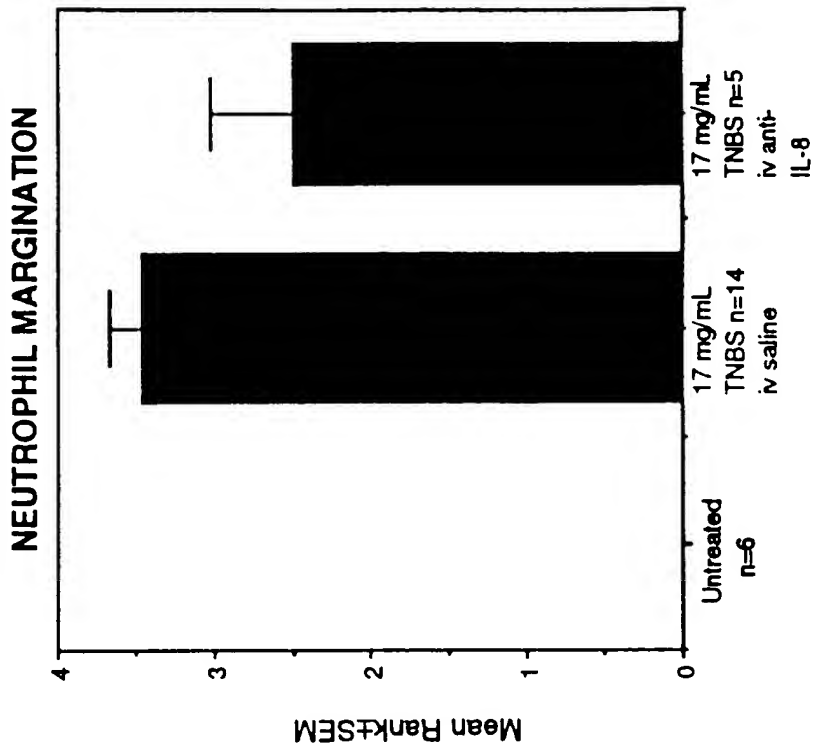


FIG. 11H

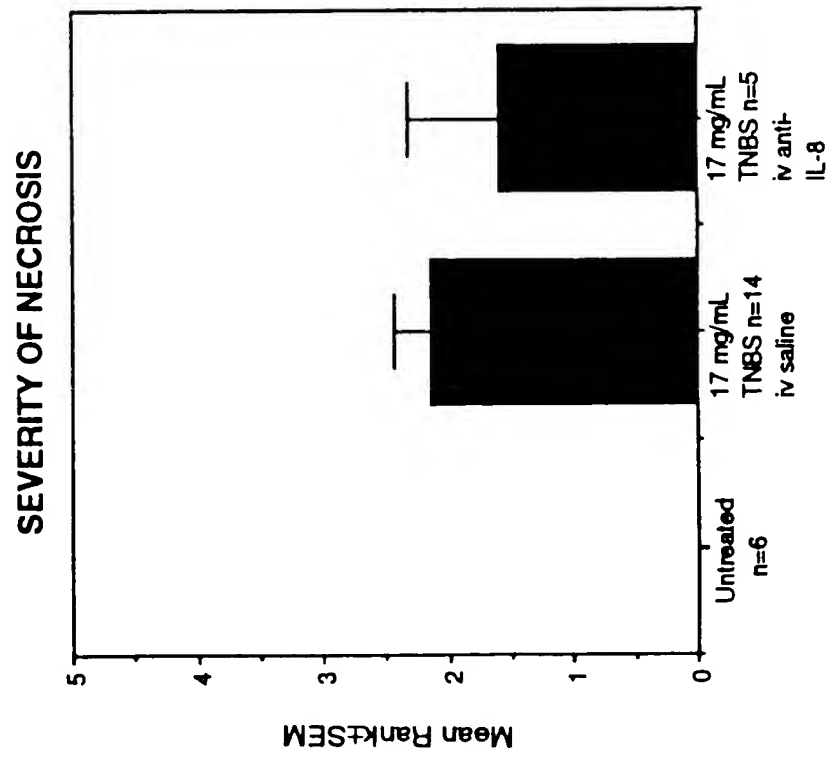


FIG. 11G



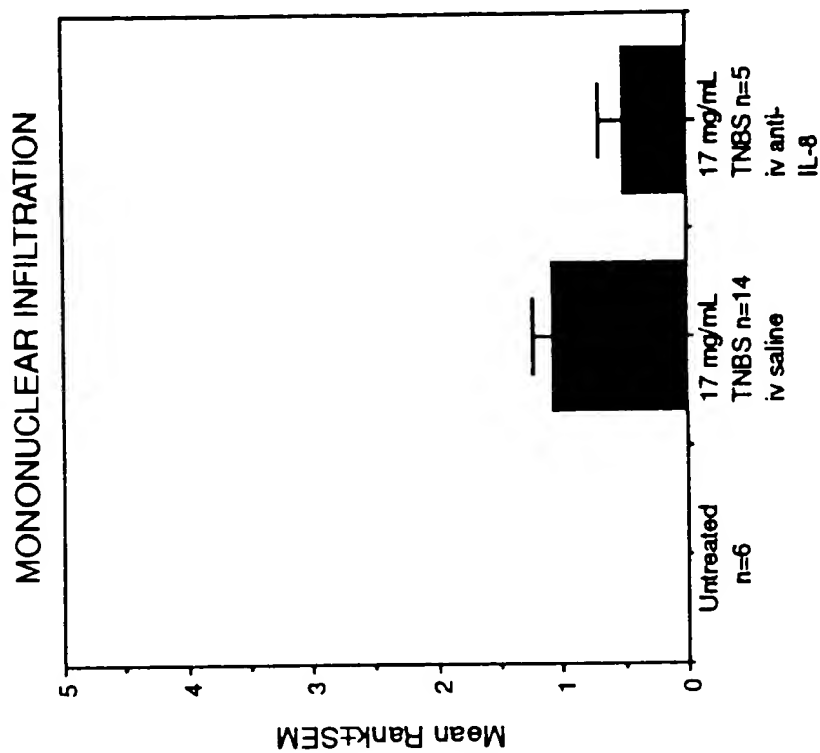


FIG. 11J

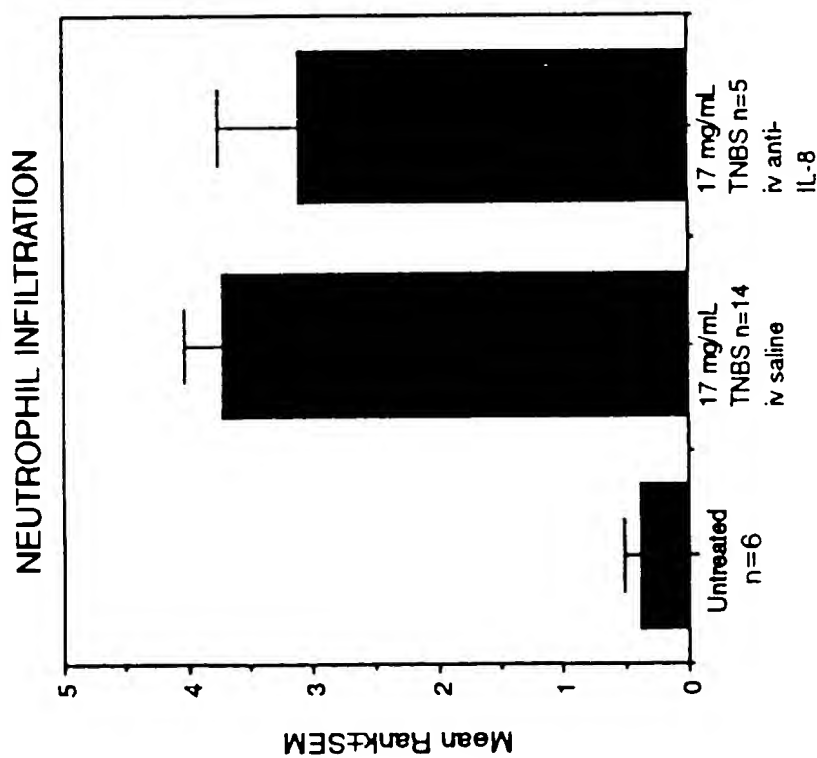


FIG. 11I



FIG. 12

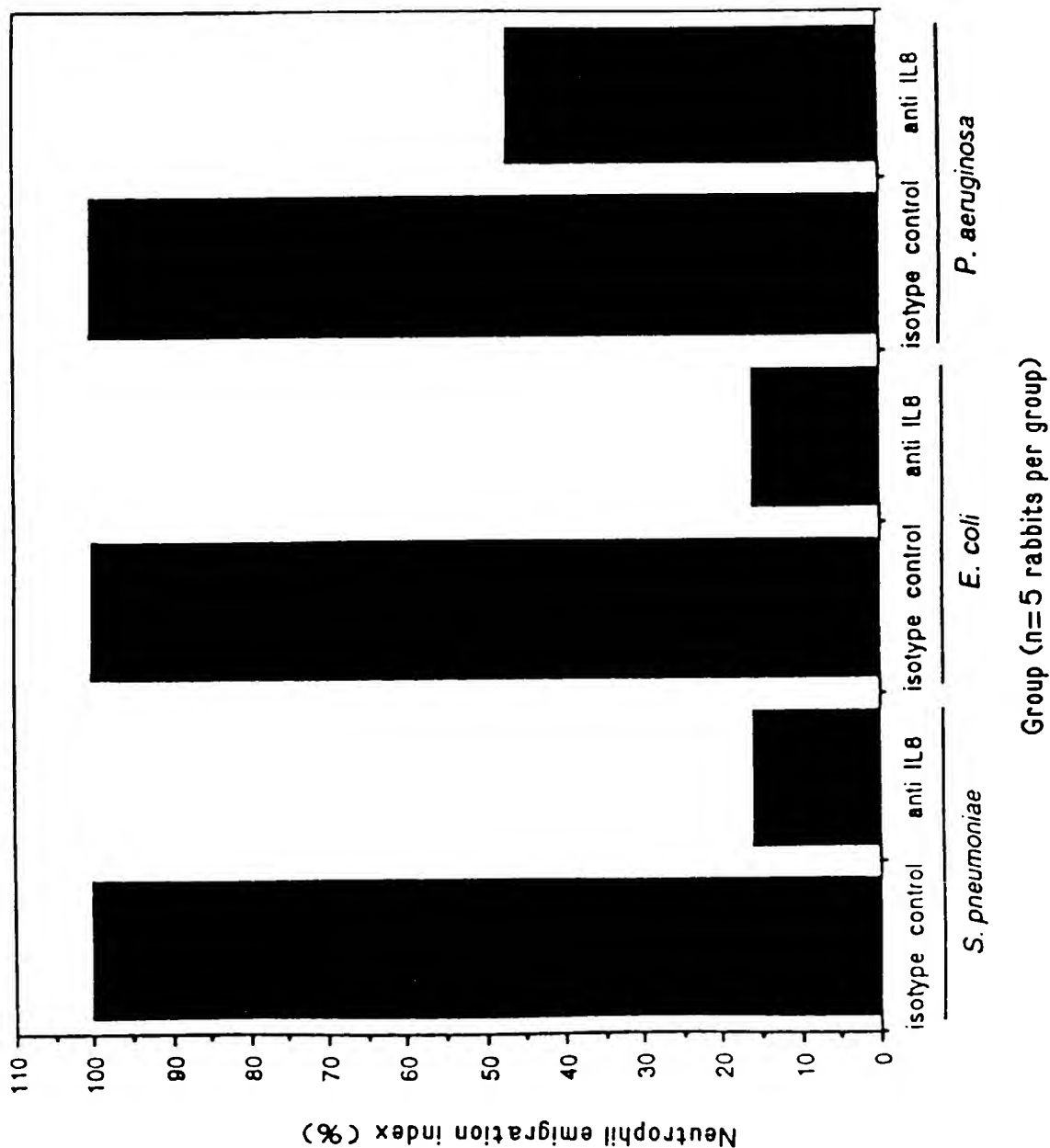




FIG. 15

Heavy chain forward primer

SL002B 39 mer

5' CGATGGGCCCCG ATAGACCGATGGGGCTGTTGTTTGGC 3' (SEQ ID NO.11)
T (SEQ ID NO.12)
G (SEQ ID NO.13)
A (SEQ ID NO.14)

Heavy chain reverse primer

SL002B 39-MER

5' CGATGGGCCCCG ATAGACCGATGGGGCTGTTGTTTGGC 3' (SEQ ID NO.11)
T (SEQ ID NO.15)
A (SEQ ID NO.14)
G (SEQ ID NO.13)



1 GACATTGTCA TGACACAGTC TCAAAAATTC ATGTCCACAT CAGTAGGAGA CAGGGTCAGC
CTGTAACAGT ACTGTGTCAG AGTTTTTAAG TACAGGTGTA GTCATCCTCT GTCCCAGTCG
1 D I V M T Q S Q K F M S T S V G D R V S

61 GTCACCTGCA AGCCAGTCA GAATGTGGGT ACTAATGTAG CCTGGTATCA ACAGAAACCA
CAGTGGACGT TCCGGTCAGT CTTACACCCA TGATTACATC GGACCATAGT TGTCTTTGGT
21 V T C K A S Q N V G T N V A W Y Q Q K P
* * * * *

CDR #1

121 GGGCAATCTC CTAAAGCACT GATTACTCG TCATCCTACC GGTACAGTGG AGTCCCTGAT
CCCGTTAGAG GATTTCGTGA CTAAATGAGC AGTAGGATGG CCATGTCACC TCAGGGACTA
41 G Q S P K A L I Y S S Y R Y S G V P D
* * * * *

CDR #2

181 CGCTTCACAG GCAGTGGATC TGGACACAGT TTCACCTCTCA CCATCAGCCA TGTGCAGTCT
GGGAAGTGTC CGTCACCTAG ACCCTGTCTA AAGTGAGAGT GGTAGTCGGT ACACGTCAGA
61 R F T G S G S G T D F T L T I S H V Q S

241 GAAGACTTGG CAGACTATT TCTGTCAGCAA TATAACATCT ATCCTCTCAC GTTCGGTCCCT
CTTCTGAACC GTCTGATAAA GACAGTCGTT ATATTGTAGA TAGGAGAGTG CAAGCCAGGA
81 E D L A D Y F C Q Q Y N I Y P L T F G P
* * * * *

CDR #3

301 GGGACCAAGC TGGAGTTGAA ACGGGCTGAT GCTGCACCAC CAACTGTATC CATCTTCCCA
CCCTGGTTCG ACCTCAACTT TGCCCGACTA CGACGTGGTG GTTGACATAG GTAGAAGGCT
101 G T K L E L K R A D A A P P T V S I F P

BstBI

361 CCATTCGAA (SEQ ID NO.16)

GGTAAGCTT

121 P F E (SEQ ID NO.17)

FIG. 16



```
1  TTCTATTGCT  ACAAACGCGT  ACGCTGAGGT  GCAGCTGGTG  GAGTCTGGGG  GAGGCTTAGT
   AAGATAACGA  TGTTTGCGCA  TGCGACTCCA  CGTCGACCAC  CTCAGACCCC  CTCCGAATCA
1      E  V    Q  L  V    E  S  G  G    G  L  V

61  GCCGCCTGGA  GGGTCCCTGA  AACTCTCCTG  TGCAGCCTCT  GGATTTCATAT  TCAGTAGTTA
   CGGCGGACCT  CCCAGGGACT  TTGAGAGGAC  ACGTCGGAGA  CCTAAGTATA  AGTCATCAAT
13  P  P  G    G  S  L  K    L  S  C    A  A  S    G  F  I  F  S  S  Y
                                     *  *

                                   CDR #1

121  TGGCATGTCT  TGGGTTCGCC  AGACTCCAGG  CAAGAGCCTG  GAGTTGGTCG  CAACCATTAA
   ACCGTACAGA  ACCCAAGCGG  TCTGAGGTCC  GTTCTCGGAC  CTCAACCAGC  GTTGGTAATT
33  G  M  S    W  V  R  Q    T  P  G    K  S  L    E  L  V  A    T  I  N
   *  *  *                                     *  *  *

181  TAATAATGGT  GATAGCACCT  ATTATCCAGA  CAGTGTGAAG  GGCCGATTCA  CCATCTCCCG
   ATTATTACCA  CTATCGTGGA  TAATAGGTCT  GTCACACTTC  CCGGCTAAGT  GGTAGAGGGC
53  N  N  G  D  S  T  Y    Y  P  D    S  V  K    G  R  F  T    I  S  R
   *  *  *    *  *  *    *  *  *    *  *  *

                                   CDR #2

241  AGACAATGCC  AAGAACACCC  TGTACCTGCA  AATGAGCAGT  CTGAAGTCTG  AGGACACAGC
   TCTGTTACGG  TTCTTGTTGG  ACATGGACGT  TTA CTGTC A    GACTTCAGAC  TCCTGTGTCG
73  D  N  A    K  N  T  L    Y  L  Q    M  S  S    L  K  S  E    D  T  A

301  CATGTTTTAC  TGTGCAAGAG  CCCTCATTAG  TTCGGCTACT  TGGTTTGGTT  ACTGGGGCCA
   GTACAAAATG  ACACGTTCTC  GGGAGTAATC  AAGCCGATGA  ACCAAACCAA  TGACCCCGGT
93  M  F  Y    C  A  R  A    L  I  S  S  A  T  W  F  G  Y    W  G  Q
                                   *  *  *  *  *  *  *  *  *

                                   CDR #3

361  AGGGACTCTG  GTCACTGTCT  CTGCAGCCAA  AACAAACAGCC  CCATCTGTCT
   TCCCTGAGAC  CAGTGACAGA  GACGTCGGTT  TTGTTGTCGG  GGTAGACAGA
113  G  T  L    V  T  V  S    A  A  K    T  T  A    P  S  V  Y

      ApaI
411  ATCCGGG (SEQ ID NO.18)
      TAGGCC
130  P      (SEQ ID NO.19)
```

FIG. 17



Title: Antibody Fragment-Polymer Conjugates and Humanized Anti-IL-8

Monoclonal Antibodies; Inventor: Vanessa H. et al.

Application No.: 09 234,182 (Attorney Docket No. 09234.093A)

20 141

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FIG. 18

VL.front 31-MER

5' ACAAACGCGTACGCTGATATCGTCATGACAG 3' (SEQ ID NO.20)

VL.rear 31-MER

5' GCAGCATCAGCTCTTCGAAGCTCCAGCTTGG 3' (SEQ ID NO.21)

VH.front.SPE 21-MER

5' CCACTAGTACGCAAGTTCACG 3' (SEQ ID NO.22)

VH.rear 33-MER

5' GATGGGCCCTTG GTGGAGGCTGCAGAGACAGTG 3' (SEQ ID NO.23)



1 ATGAAGAAGA ATATCGCATT TCTTCTTGCA TCTATGTTCTG TTTTCTCTAT TGCTACAAAC
TACTTCTTCT TATAGCGTAA AGAAGAACGT AGATACAAGC AAAAAAGATA ACGATGTTTG
-23 M K K N I A F L L A S M F V F S I A T N

61 GCGTACGCTG ATATCGTCAT GACACAGTCT CAAAAATTCA TGTCCACATC AGTAGGAGAC
CGCATGCGAC TATAGCAGTA CTGTGTCAGA GTTTTAAAGT ACAGGTGTAG TCATCCTCTG
-3 A Y A D I V M T Q S Q K F M S T S V G D

121 AGGGTCAGCG TCACCTGCAA GGCCAGTCAG AATGTGGGTA CTAATGTAGC CTGGTATCAA
TCCCAGTCGC AGTGGACGTT CCGGTCAGTC TTACACCCAT GATTACATCG GACCATAGTT
18 R V S V T C K A S Q N V G T N V A W Y Q
* * * * * * * * *

CDR #1

181 CAGAAACCAG GGCAATCTCC TAAAGCACTG ATTTACTCGT CATCCTACCG GTACAGTGGG
GTCTTTGGTC CCGTTAGAGG ATTTTCGTGAC TAAATGAGCA GTAGGATGGC CATGTCACCT
38 Q K P G Q S P K A L I Y S S S Y R Y S G
* * * * *

CDR #2

241 GTCCCTGATC GCTTCACAGG CAGTGGATCT GGGACAGATT TCACTCTCAC CATCAGCCAT
CAGGGACTAG CGAAGTGTCC GTCACCTAGA CCCTGTCTAA AGTGAGAGTG GTAGTCGGTA
58 V P D R F T G S G S G T D F T L T I S H

301 GTGCAGTCTG AAGACTTGGC AGACTATTTT TGTCAGCAAT ATAACATCTA TCCTCTCACG
CACGTCAGAC TTCTGAACCG TCTGATAAAG ACAGTCGTTA TATTGTAGAT AGGAGAGTGC
78 V Q S E D L A D Y F C Q Q Y N I Y P L T
* * * * *

CDR #3

BstBI

361 TTCGGTCCTG GGACCAAGCT GGAGCTTCGA AGAGCTGTGG CTGCACCATC TGTCTTCATC
AAGCCAGGAC CCTGGTTCGA CCTCGAAGCT TCTCGACACC GACGTGGTAG ACAGAAGTAG
98 F G P G T K L E L R R A V A A P S V F I

421 TTCCCGCCAT CTGATGAGCA GTTGAAATCT GGAAGTGTCT CTGTTGTGTG CCTGCTGAAT
AAGGGCGGTA GACTACTCGT CAACTTTAGA CCTTGACGAA GACAACACAC GGACGACTTA
118 F P P S D E Q L K S G T A S V V C L L N

481 AACTTCTATC CCAGAGAGGC CAAAGTACAG TGGAAGGTGG ATAACGCCCT CCAATCGGGT
TTGAAGATAG GGTCTCTCCG GTTTCATGTC ACCTTCCACC TATTGCGGGA GGTTAGCCCA
138 N F Y P R E A K V Q W K V D N A L Q S G

541 AACTCCCAGG AGAGTGTACAC AGAGCAGGAC AGCAAGGACA GCACCTACAG CCTCAGCAGC
TTGAGGGTCC TCTCACAGTG TCTCGTCCTG TCGTTCCTGT CGTGGATGTC GGAGTCGTCTG
158 N S Q E S V T E Q D S K D S T Y S L S S

601 ACCCTGACGC TGAGCAAAGC AGACTACGAG AAACACAAAG TCTACGCCCTG CGAAGTCACC
TGGGACTGCG ACTCGTTTCG TCTGATGCTC TTTGTGTTTC AGATGCGGAC GCTTCAGTGG
178 T L T L S K A D Y E K H K V Y A C E V T

661 CATCAGGGCC TGAGCTCGCC CGTCACAAAG AGCTTCAACA GGGGAGAGTG
GTAGTCCCGG ACTCGAGCGG GCAGTGTTC TCGAAGTTGT CCCCTCTCAC
198 H Q G L S S P V T K S F N R G E C (SEQ ID NO.25)

711 TTAA (SEQ ID NO.24)
AATT
216 O

FIG. 19



Title: Antibody Fragment-Polymer Conjugates and Humanized Anti-IL-8

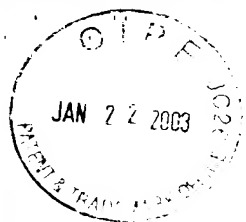
Monoclonal Antibodies; Inventor: Vanessa H. et al.

Application No.: 09 234,182 (Attorney Docket No. 09-234,182 (093A))

23 141

661 ACCCAGACCT ACATCTGCAA CGTGAATCAC AAGCCCAGCA ACACCAAGGT GGACAAGAAA
TGGGTCGGA GTAGACGTT GCACTTAGTG TTCGGGTCGT TGTGGTTCCA CCTGTTCTTT
198 T Q T Y I C N V N H K P S N T K V D K K
721 GTTGAGCCCA AATCTTGTGA CAAAACTCAC ACATGA (SEQ ID NO.26)
CAACTCGGGT TTAGAACA CT GTTTTGAGTG TGTACT
218 V E P K S C D K T H T O (SEQ ID NO.27)

FIG. 20B



Title: Antibody Fragment-Polymer Conjugates and Humanized Anti-IL-8

Monoclonal Antibodies; Inventor: Vanessa H. et al.

Application No.: 09 234,182 (Attorney Docket No. 09-234,182-093A)

24 141

Light Chain Primers:

MKLC-1, 22mer

5' CAGTCCAACTGTTTCAGGACGCC 3' (SEQ ID NO.1)

MKLC-2, 22mer

5' GTGCTGCTCATGCTGTAGGTGC 3' (SEQ ID NO.2)

MKLC-3, 23mer

5' GAAGTTGATGTCTTGTGAGTGGC 3' (SEQ ID NO.3)

Heavy Chain Primers:

IGG2AC-1, 24mer

5' GCATCCTAGAGTCACCGAGGAGCC 3' (SEQ ID NO.4)

IGG2AC-2, 22mer

5' CACTGGCTCAGGGAAATAACCC 3' (SEQ ID NO.5)

IGG2AC-3, 22mer

5' GGAGAGCTGGGAAGGTGTGCAC 3' (SEQ ID NO.6)

FIG. 21

Light chain forward primer

6G4.light.Nsi 36-MER

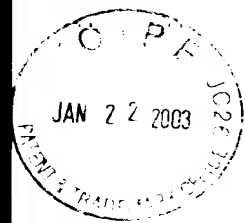
5'	CCAATGCATACGCT	GAC	ATC	GTG	ATG	ACC	CAG	ACC	CC	3'	(SEQ ID NO.28)
			T						T		(SEQ ID NO.29)
									A		(SEQ ID NO.30)

Light chain reverse primer

6G4.light.Mun 35-MER

5' AGA TGT CAA TTG CTC ACT GGA TGG TGG GAA GAT GG 3' (SEQ ID NO.31)

FIG. 22



Heavy chain forward primer

6G4.heavy.Mlu 32-MER

5' CAAACGCGTAGCT GAG ATC CAG CTG CAG CAG 3' (SEQ ID NO.32)
T C (SEQ ID NO.33)

Heavy chain reverse primer

SL002B 39-MER

5' CGATGGGCCCCG ATAGACCGATGGGGCTGTTGTTTGGC 3' (SEQ ID NO.11)
T (SEQ ID NO.15)
A (SEQ ID NO.14)
G (SEQ ID NO.13)

FIG. 23



70 G ATATCGTGAT GACACAGACA CCACTCTCCC TGCCTGTCAG TCTTGGAGAT
C TATAGCACTA CTGTGTCTGT GGTGAGAGGG ACGGACAGTC AGAACCTCTA
1 D I V M T Q T P L S L P V S L G D

121 CAGGCCTCCA TCTCTTGCAG ATCTAGTCAG AGCCTTGTAC ACGGTATTGG AAACACCTAT
GTCCGGAGGT AGAGAACGTC TAGATCAGTC TCGGAACATG TGCCATAACC TTTGTGGATA
18 Q A S I S C R S S O S L V H G I G N T Y

CDR #1

181 TTACATTGGT ACCTGCAGAA GCCAGGCCAG TCTCCAAAGC TCCTGATCTA CAAAGTTTCC
AATGTAACCA TGGACGTCTT CGGTCCGGTC AGAGGTTTTCG AGGACTAGAT GTTTCAAAGG
38 L H W Y L Q K P G Q S P K L L I Y K V S
* * * * *

CDR #2

241 AACCGATTTT CTGGGGTCCC AGACAGGTTC AGTGGCAGTG GATCAGGGAC AGATTTCACA
TTGGCTAAAA GACCCAGGG TCTGTCCAAG TCACCGTCAC CTAGTCCCTG TCTAAAGTGT
58 N R F S G V P D R F S G S G S G T D F T
* * * *

301 CTCAGGATCA GCAGAGTGGA GGCTGAGGAT CTGGGACTTT ATTTCTGCTC TCAAAGTACA
GAGTCCTAGT CGTCTCACCT CCGACTCCTA GACCCTGAAA TAAAGACGAG AGTTTCATGT
78 L R I S R V E A E D L G L Y F C S Q S T
* * * *

CDR #3

361 CATGTTCCGC TCACGTTTCGG TGCTGGGACC AAGCTGGAGC TGAAACGGGC TGATGCTGCA
GTACAAGGCG AGTGCAAGCC ACGACCCTGG TTCGACCTCG ACTTTGCCCG ACTACGACGT
98 H V P L T F G A G T K L E L K R A D A A
* * * *

MunI

421 CCAACTGTAT CCATCTTCCC ACCATCCAGT GAGCAATTGA (SEQ ID NO.34)
GGTTGACATA GGTAGAAGGG TGGTAGGTCA CTCGTTAACT
118 P T V S I F P P S S E Q L K (SEQ ID NO.35)



70 G AGATTCAGCT GCAGCAGTCT GGACCTGAGC TGATGAAGCC TGGGGCTTCA
C TCTAAGTCGA CGTCGTCAGA CCTGGACTCG ACTACTTCGG ACCCCGAAGT
1 E I Q L Q Q S G P E L M K P G A S

121 GTGAAGATAT CCTGCAAGGC TTCTGGTTAT TCATTTCAGTA GCCACTACAT GCACTGGGTG
CACTTCTATA GGACGTTCCG AAGACCAATA AGTAAGTCAT CGGTGATGTA CGTGACCCAC
18 V K I S C K A S G Y S F S S H Y M H W V
* * * * *

CDR #1

181 AAGCAGAGCC ATGGAAAGAG CCTTGAGTGG ATTGGCTACA TTGATCCTTC CAATGGTGAA
TTCGTCTCGG TACCTTTCTC GGAATCACC TAACCGATGT AACTAGGAAG GTTACCACTT
38 K Q S H G K S L E W I G Y I D P S N G E
* * * * *

CDR #2

241 ACTACTTACA ACCAGAAATT CAAGGGCAAG GCCACATTGA CTGTAGACAC ATCTTCCAGC
TGATGAATGT TGGTCTTTAA GTTCCCGTTC CGGTGTAAC TACATCTGTG TAGAAGGTCTG
58 T T Y N Q K F K G K A T L T V D T S S S
* * * * *

301 ACAGCCAACG TGCATCTCAG CAGCCTGACA TCTGATGACT CTGCAGTCTA TTTCTGTGCA
TGTCGGTTGC ACGTAGAGTC GTCGGACTGT AGACTACTGA GACGTCAGAT AAAGACACGT
78 T A N V H L S S L T S D D S A V Y F C A

361 AGAGGGGACT ATAGATACAA CGGCGACTGG TTTTTCGATG TCTGGGGCGC AGGGACCACG
TCTCCCCTGA TATCTATGTT GCCGCTGACC AAAAAGCTAC AGACCCCGCG TCCCTGGTGC
98 R G D Y R Y N G D W F F D V W G A G T T
* * * * *

CDR #3

BstEII ApaI
421 GTCACCGTCT CCTCCGCCAA AACCGACAGC CCCATCGGTC TATCCGGGCC
CAGTGGCAGA GGAGGCGGAT TTGGCTGTCG GGGTAGCCAG ATAGGCCCGG
118 V T V S S A K T D S P I G L S G P

471 CATC (SEQ ID NO.36)
GTAG
135 I (SEQ ID NO.37)

FIG. 25



5' CTTGGTGGAGGCGGAGGAGACG 3' (SEQ ID NO.38)

Mutagenesis Primer for 6G425VL

DS/VF 38MER

5' GAAACGGGCTGTTGCTGCACCAACTGTATTCATCTTCC 3' (SEQ ID NO.39)

SYN.BstEII 31 MER

5' GTCACCGTCT CCTCCGCCTC CACCAAGGGC C 3' (SEQ ID NO.40)

SYN.Apa 22 MER

5' CTTGGTGGAGGCGGAGGAGACG 3' (SEQ ID NO.38)

FIG. 26

FIG. 27A



Title: Antibody Fragment-Polymer Conjugates and Humanized Anti-IL-8

Monoclonal Antibodies; Inventor: Vanessa H. et al.

Application No.: 09 234,182 (Attorney Docket No. C-98ENT-093A)

31 141

661 GCCTGCGAAG TCACCCATCA GGGCCTGAGC TCGCCCGTCA CAAAGAGCTT CAACAGGGGA
CGGACGCTTC AGTGGGTAGT CCGGACTCG AGCGGGCAGT GTTCTCGAA GTTGTCCTT
198 A C E V T H Q G L S S P V T K S F N R G

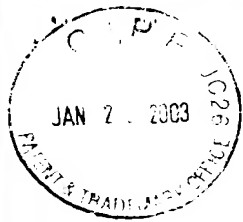
721 GAGTGTAA (SEQ ID NO.41)

CTCACAATT

218 E C O (SEQ ID NO.42)

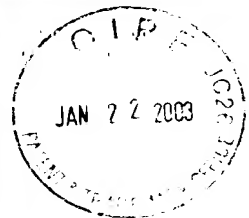
FIG. 27B

FIG. 28A



661 TTGGGCACCC AGACCTACAT CTGCAACGTG AATCACAAGC CCAGCAACAC CAAGGTGGAC
AACCCGTGGG TCTGGATGTA GACGTTGCAC TTAGTGTTCG GGTGTTGTG GTTCCACCTG
198 L G T Q T Y I C N V N H K P S N T K V D
721 AAGAAAGTTG AGCCCAAATC TTGTGACAAA ACTCACACAT GA (SEQ ID NO.43)
TTCTTTCAAC TCGGGTTTAG AACACTGTTT TGAGTGTGTA CT
218 K K V E P K S C D K T H T O (SEQ ID NO.44)

FIG. 28B



Variable Light Chain Domain

```

      10      20      abcde 30      40
6G425  DIVMTQTPLSLPVS LGDQASISCRSSQSLVHGIGNTYLHWYLQKPGQSPKLLIY
      * * * * *
F(ab)-1 DIQMTQSPSSLSASVGDRTITCRSSQSLVHGIGNTYLHWYQQKPGKAPKLLIY
      * * * * *
humkI   DIQMTQSPSSLSASVGDRTITCRASKTI-----SKYLAWYQQKPGKAPKLLIY
      * * * * *
      ++++++
      L1

      50      60      70      80      90      100
6G425  YKVSNRFGVFPDRFSDSGSGTDFTLRISRVEAEDLGLYFCSQSTHVPLTFGAGTKLELKR (SEQ ID NO.45)
      * * * * *
F(ab)-1 YKVSNRFGVPSRFGSGSGTDFTLTISLQPEDFATYYCSQSTHVPLTFGQGTKVEIKR (SEQ ID NO.46)
      * * * * *
humkI   YSGSTLESQVPSRFGSGSGTDFTLTISLQPEDFATYYCQQHNEYPLTFGQGTKVEIKR (SEQ ID NO.47)
      * * * * *
      ++++++
      L2
      ++++++
      L3
```

Variable Heavy Chain Domain

```

      10      20      30      40
6G425  EIQLQQSGPELMKPGASVKISCKASGYSFSSHYMHVWKQSHGKSLEWI
      * * * * *
F(ab)-1 EVQLVESGGGLVQPGGSLRLSCAASGYSFSSHYMHVWRQAPGKGLEWV
      * * * * *
humIII  EVQLVESGGGLVQPGGSLRLSCAASGFSFTGHWMNWVRQAPGKGLEWV
      * * * * *
      ++++++
      H1

      50  a      70      80  abc      90      100      110
6G425  GYIDPSNGETTYNQKFKGKATLTVDTSSTANVHLSSLTSDDSAVYFCAARGDYRYNGDWFFDVWGAGT (SEQ ID NO.48)
      * * * * *
F(ab)-1 GYIDPSNGETTYNQKFKGRFTISRDNKNTLYLQMNSLRAEDTAVYYCAARGDYRYNGDWFFDVWGQGT (SEQ ID NO.49)
      * * * * *
humIII  GMIHPSDSETRYADSVKGRFTISRDNKNTLYLQMNSLRAEDTAVYYCAARGIYFY-GTTYFDYWQGT (SEQ ID NO.50)
      * * * * *
      ++++++
      H2
      ++++++
      H3
```

FIG. 29

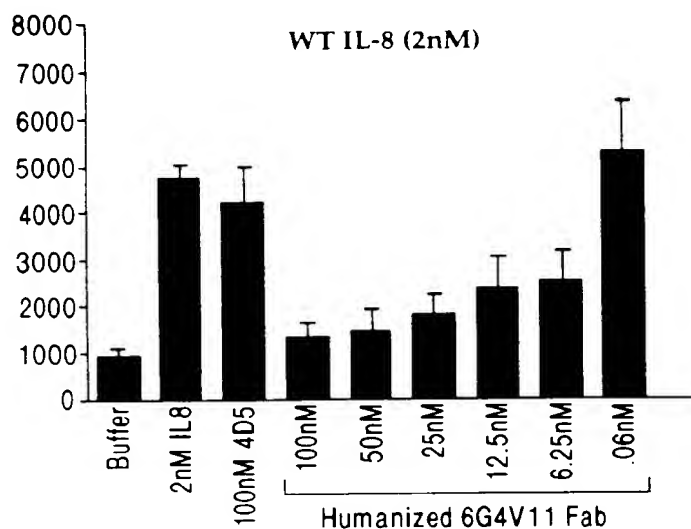


FIG. 30A

IC₅₀~12nM

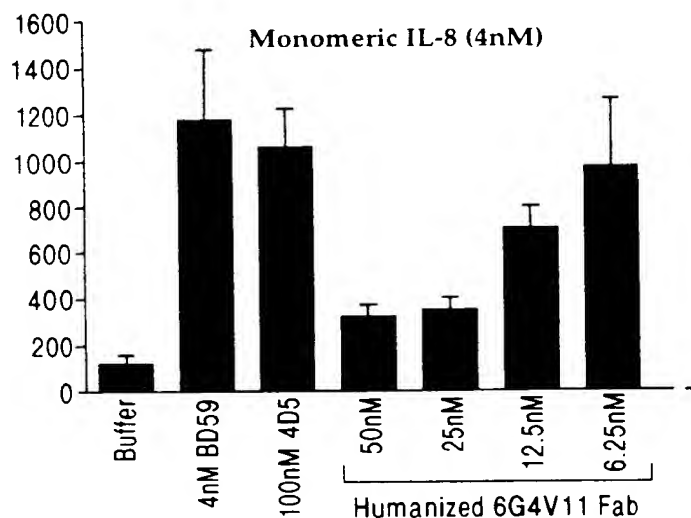


FIG. 30B

IC₅₀~15nM

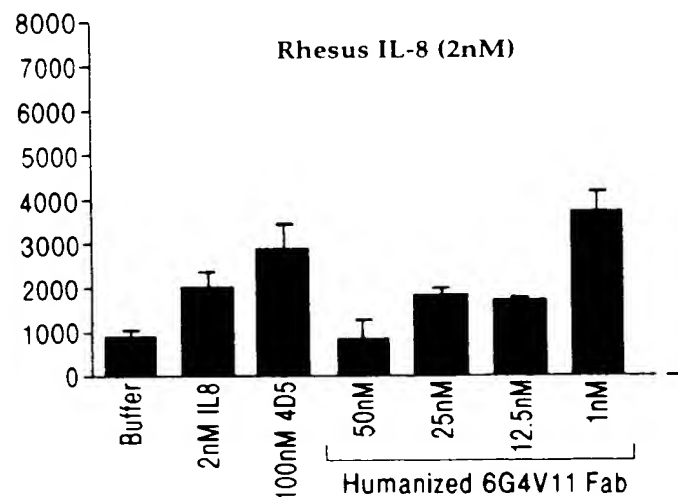
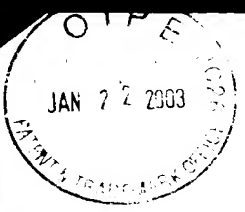


FIG. 30C

IC₅₀~22nM



1 ATGAAAAAGA ATATCGCATT TCTTCTTGCA TCTATGTTCG TTTTCTCTAT TGCTACAAAC
TACTTTTTCT TATAGCGTAA AGAAGAACGT AGATACAAGC AAAAAAGATA ACGATGTTTG
-23 M K K N I A F L L A S M F V F S I A T N

61 GCATACGCTG ATATCCAGAT GACCCAGTCC CCGAGCTCCC TGTCCGCCTC TGTGGGCGAT
CGTATGCGAC TATAGGTCTA CTGGGTCAGG GGCTCGAGGG ACAGGCGGAG ACACCCGCTA
-3 A Y A D I Q M T Q S P S S L S A S V G D

121 AGGGTCACCA TCACCTGCAG GTCAAGTCAA AGCTTAGTAC ATGGTATAGG TAACACGTAT
TCCCAGTGGT AGTGGACGTC CAGTTCAGTT TCGAATCATG TACCATATCC ACGATGCATA
18 R V T I T C R S S Q S L V H G I G N T Y

181 TTACACTGGT ATCAACAGAA ACCAGGAAAA GCTCCGAAAC TACTGATTTA CAAAGTATCC
AATGTGACCA TAGTTGTCTT TGGTCCTTTT CGAGGCTTTG ATGACTAAAT GTTTCATAGG
38 L H W Y Q Q K P G K A P K L L I Y K V S

241 AATCGATTCT CTGGAGTCCC TTCTCGCTTC TCTGGATCCG GTTCTGGGAC GGATTTCACT
TTAGCTAAGA GACCTCAGGG AAGAGCGAAG AGACCTAGGC CAAGACCCTG CCTAAAGTGA
58 N R F S G V P S R F S G S G S G T D F T

301 CTGACCATCA GCAGTCTGCA GCCAGAAGAC TTCGCAACTT ATTACTGTTC ACAGAGTACT
GACTGGTAGT CGTCAGACGT CGGTCTTCTG AAGCGTTGAA TAATGACAAG TGTCTCATGA
78 L T I S S L Q P E D F A T Y Y C S Q S T

361 CATGTCCCGC TCACGTTTGG ACAGGGTACC AAGGTGGAGA TCAAACGAAC TGTGGCTGCA
GTACAGGGCG AGTGCAAACC TGTCCTCATG TTCCACCTCT AGTTTGCTTG ACACCGACGT
98 H V P L T F G Q G T K V E I K R T V A A

421 CCATCTGTCT TCATCTTCCC GCCATCTGAT GAGCAGTTGA AATCTGGAAC TGCTTCTGTT
GGTAGACAGA AGTAGAAGGG CGGTAGACTA CTCGTCAACT TTAGACCTTG ACGAAGACAA
118 P S V F I F P P S D E Q L K S G T A S V

481 GTGTGCCTGC TGAATAACTT CTATCCCAGA GAGGCCAAAG TACAGTGGAA GGTGGATAAC
CACACGGACG ACTTATTGAA GATAGGGTCT CTCCGGTTTC ATGTCACCTT CCACCTATTG
138 V C L L N N F Y P R E A K V Q W K V D N

541 GCCCTCCAAT CGGGTAACTC CCAGGAGAGT GTCACAGAGC AGGACAGCAA GGACAGCACC
CGGGAGGTTA GCCATTGAG GGTCCTCTCA CAGTGTCTCG TCCTGTCGTT CCTGTCTGTTG
158 A L Q S G N S Q E S V T E Q D S K D S T

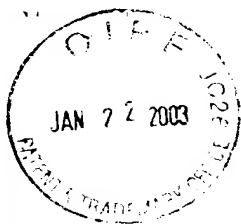
601 TACAGCCTCA GCAGCACCTT GACGCTGAGC AAAGCAGACT ACGAGAAACA CAAAGTCTAC
ATGTCGGAGT CGTCGTGGGA CTGCGACTCG TTTCGTCTGA TGCTCTTTGT GTTTCAGATG
178 Y S L S S T L T L S K A D Y E K H K V Y

661 GCCTGCGAAG TCACCCATCA GGGCCTGAGC TCGCCCGTCA CAAAGAGCTT CAACAGGGGA
CGGACGCTTC AGTGGGTAGT CCCGGACTCG AGCGGGCAGT GTTTCTCGAA GTTGTCCCCT
198 A C E V T H Q G L S S P V T K S F N R G

721 GAGTGTTAAG CTGATCCTCT ACGCCGGACG CATCGTGGCC CTAGTACGCA ACTAGTCGTA
CTCACAATTC GACTAGGAGA TGCGGCCTGC GTAGCACCGG GATCATGCGT TGATCAGCAT
218 E C O (SEQ ID NO.51)

(SEQ ID NO.54)

FIG. 31B



Amino Acid Sequence of the humanized anti-IL-8 6G4.2.5V19 Light Chain

MKKNIAFLASMFVFSIATNAYADIQMTQSPSSLSASVGDRTTITCRSSQSLVHGIGNTY
LHWYQQKPGKAPKLLIYKVSINRFSGVPSRFSGSGGTDFTLTISLQPEDFATYYCSQST
HVP LTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDN
ALQSGNSQESVTEQDSKDSYSTLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRG
EC (SEQ ID NO.51)

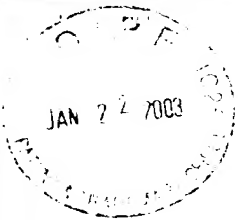
Amino Acid Sequence of the humanized anti-IL-8 6G4.2.5V19 Heavy Chain

MKKNIAFLASMFVFSIATNAYAEVQLVESGGGLVQPGGSLRLSCAASGYSFSSHYMH
WVKQAPGKGLEWVGVIDPSNGETTYNQKFKGRFTLSRDNSKNTAYLQMNSLRAEDTAVYY
CARGDYRYNGDWFFDVGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYF
PEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVTPSSSLGTQTYICNVNHHKPSNTK
VDKKVEPKSCDKTHT (SEQ ID NO.55)

FIG. 31C



FIG. 32



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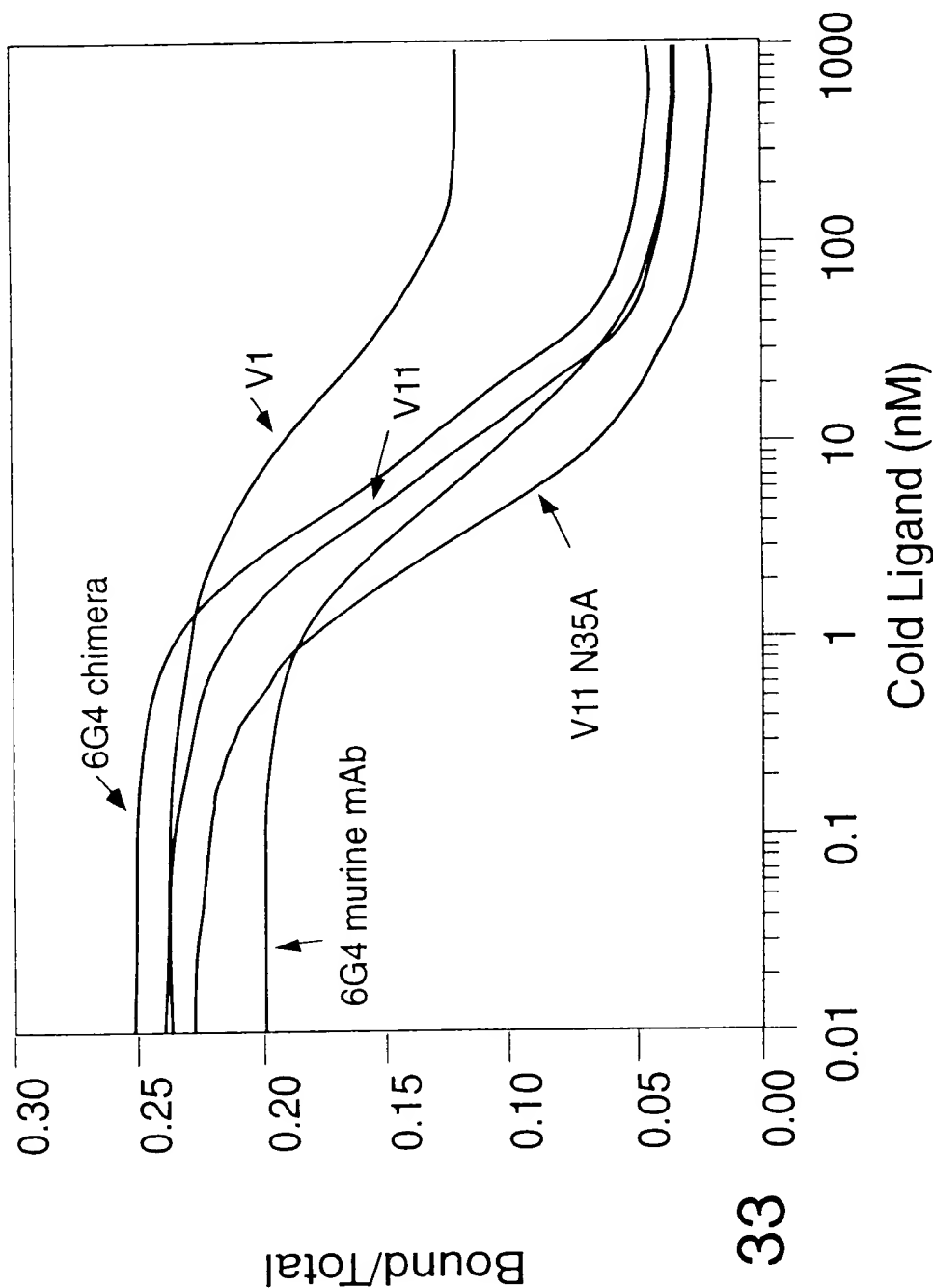
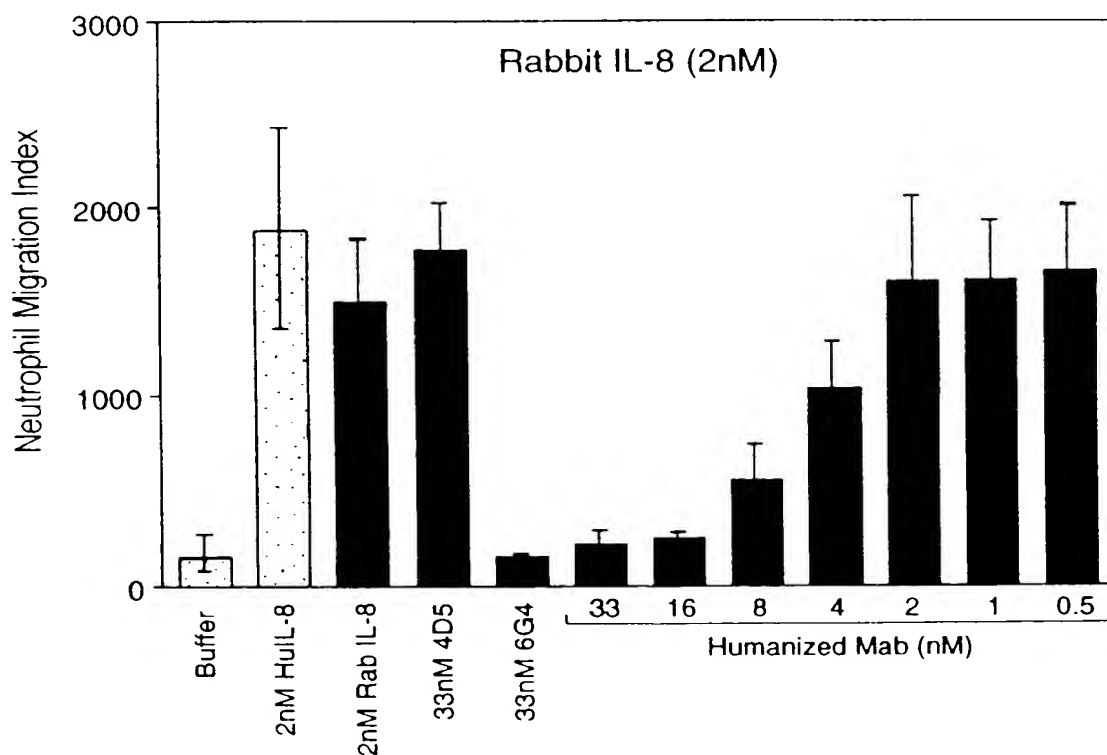
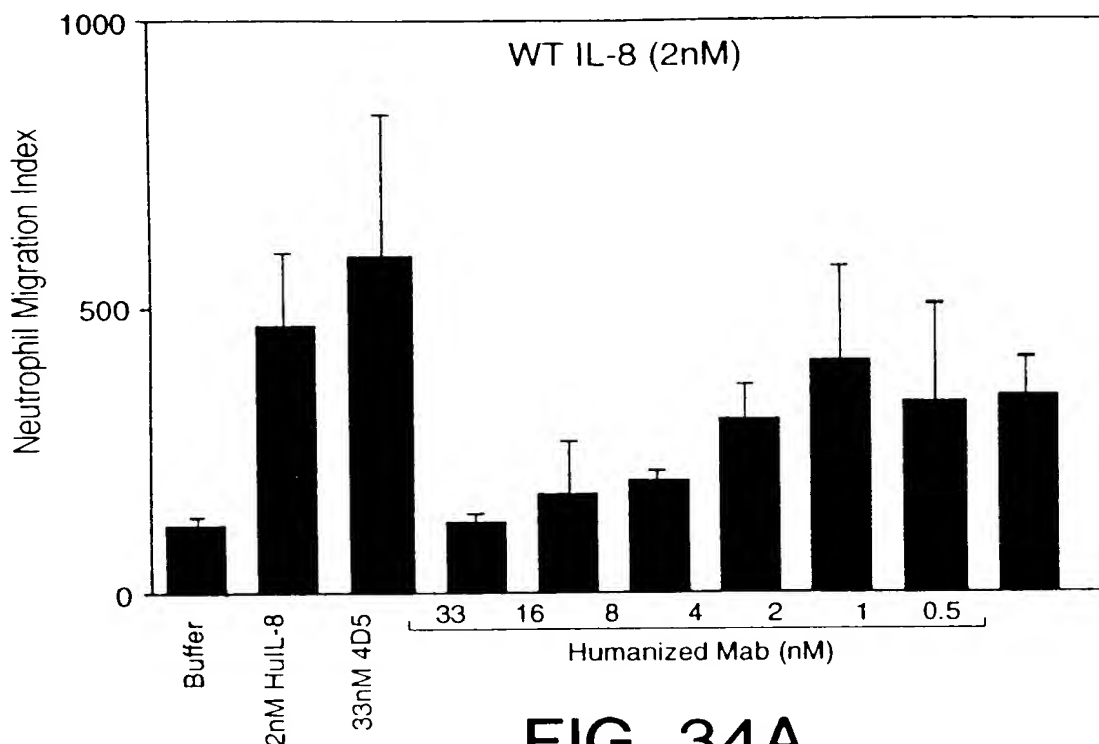


FIG. 33



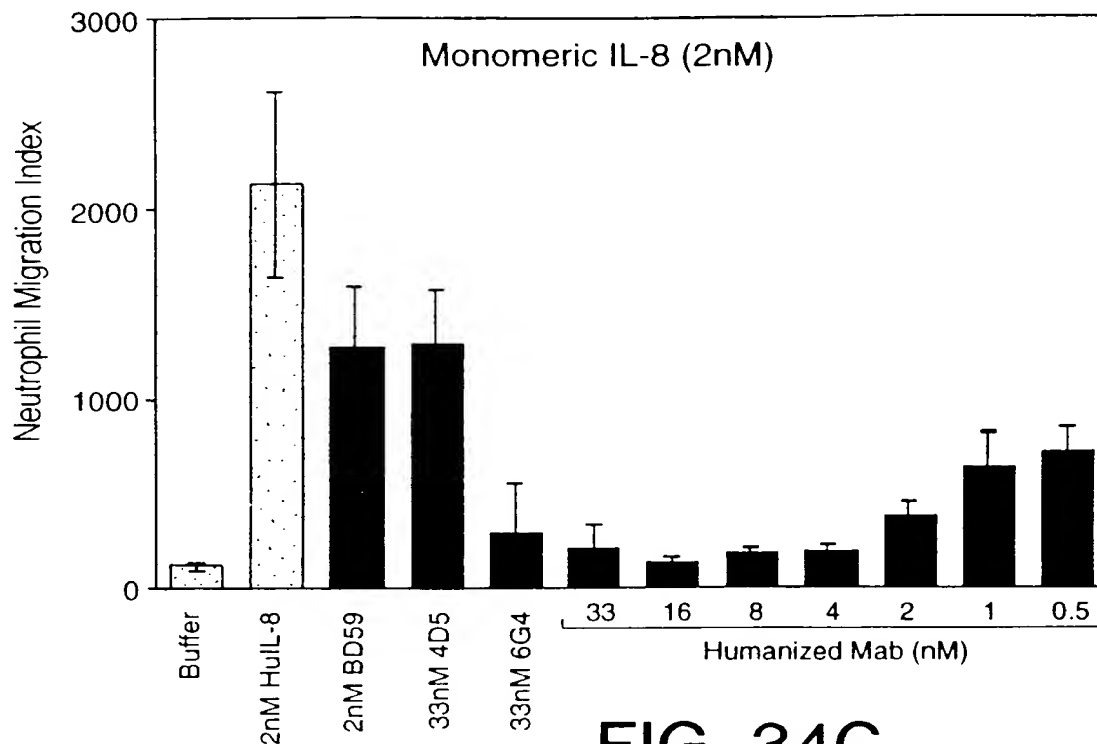


FIG. 34C

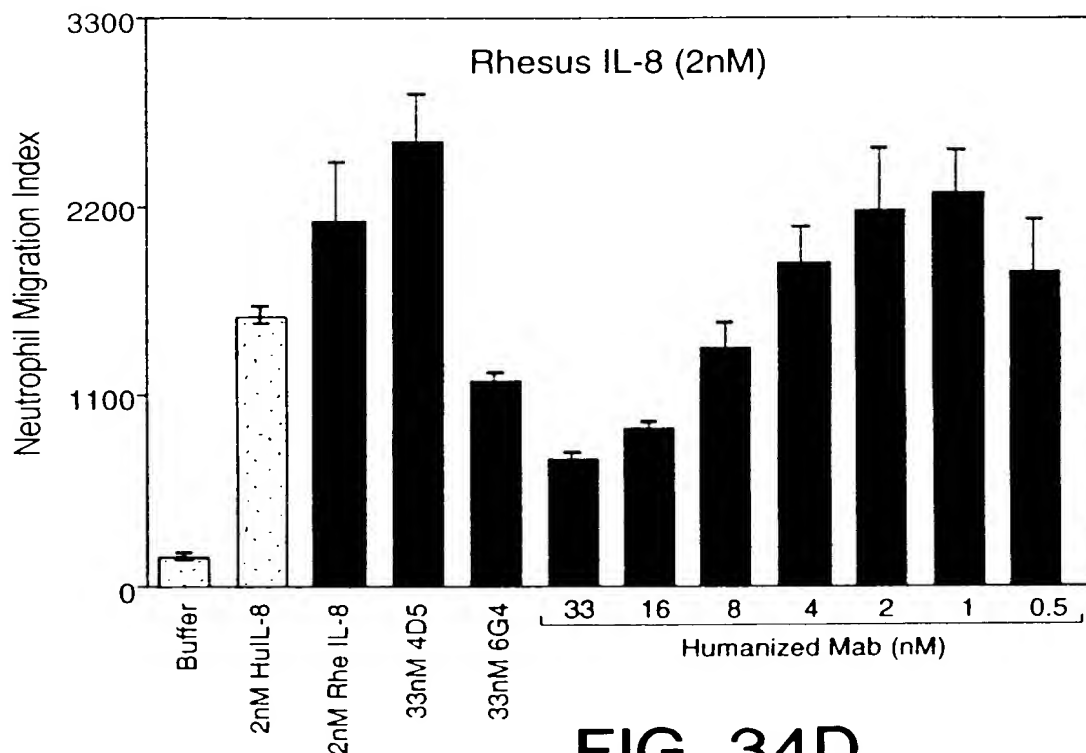


FIG. 34D

Amino Acid Sequence of the humanized anti-IL-8 6G4.2.5V11N35A Light Chain

MKKNIAFLASMFVFSIATNAYADIQMTQSPSSLSASVGDRTVITCRSSQSLVHGIGATY
LHWYQQKPGKAPKLLIYKVSNRFSGVPSRFSGSGTDFTLTISSLQPEDFATYYCSQST
HVPLTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDN
ALQSGNSQESVTEQDSKDSYSTLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRG
EC (SEQ ID NO.56)

Amino Acid Sequence of the humanized anti-IL-8 6G4.2.5V11N35A Heavy Chain

MKKNIAFLASMFVFSIATNAYAEVQLVQSGGGLVQPGGSLRLSCAASGYSFSSHYMH
WVRQAPGKGLWVGYYIDPSNGETTYNQKFKGRFTLSRDNSKNTAYLQMNSLRAEDTAVYY
CARGDYRYNGDWFFDVWGQGLTVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYF
PEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVTPSSSLGTQTYICNVNHHKPSNTK
VDKKVEPKSCDKTHT (SEQ ID NO.52)

Amino Acid Sequence of the putative Pepsin Cleavage Site and GCN4 Leucine Zipper

CPPCPAPELLGGRMKQLEDKVEELLSKNYHLENEVARLKKLVGER (SEQ ID NO.57)

FIG. 35

1 ATGAAAAAGA ATATCGCATT TCTTCTTGCA TCTATGTTTCG TTTTCTCTAT TGCTACAAAC
 TACTTTTTCT TATAGCGTAA AGAAGAACGT AGATACAAGC AAAAAAGATA ACGATGTTTG
 -23 M K K N I A F L L A S M F V F S I A T N
 61 GCATACGCTG ATATCCAGAT GACCCAGTCC CCGAGCTCCC TGTCCGCCTC TGTGGGCGAT
 CGTATGCGAC TATAGGTCTA CTGGGTCAGG GGCTCGAGGG ACAGGCGGAG ACACCCGCTA
 -3 A Y A D I Q M T Q S P S S L S A S V G D
 121 AGGGTCACCA TCACCTGCAG GTCAAGTCAA AGCTTAGTAC ATGGTATAGG TGCTACGTAT
 TCCCAGTGGT AGTGGACGTC CAGTTCAGTT TCGAATCATG TACCATATCC ACGATGCATA
 18 R V T I T C R S S Q S L V H G I G A T Y
 181 TTACACTGGT ATCAACAGAA ACCAGGAAAA GCTCCGAAAC TACTGATTTA CAAAGTATCC
 AATGTGACCA TAGTTGTCTT TGGTCCTTTT CGAGGCTTTG ATGACTAAAT GTTTCATAGG
 38 L H W Y Q Q K P G K A P K L L I Y K V S
 241 AATCGATTCT CTGGAGTCCC TTCTCGCTTC TCTGGATCCG GTTCTGGGAC GGATTTCACT
 TTAGCTAAGA GACCTCAGGG AAGAGCGAAG AGACCTAGGC CAAGACCTTG CCTAAAGTGA
 58 N R F S G V P S R F S G S G S G T D F T
 301 CTGACCATCA GCAGTCTGCA GCCAGAAGAC TTCGCAACTT ATTACTGTTC ACAGAGTACT
 GACTGGTAGT CGTCAGACGT CGGTCTTCTG AAGCGTTGAA TAATGACAAG TGTCTCATGA
 78 L T I S S L Q P E D F A T Y Y C S Q S T
 361 CATGTCCCGC TCACGTTTGG ACAGGGTACC AAGGTGGAGA TCAAACGAAC TGTGGCTGCA
 GTACAGGGCG AGTGCAAACC TGTCCCATGG TTCCACCTCT AGTTTGCTTG ACACCGACGT
 98 H V P L T F G Q G T K V E I K R T V A A
 421 CCATCTGTCT TCATCTTCCC GCCATCTGAT GAGCAGTTGA AATCTGGAAC TGCTTCTGTT
 GGTAGACAGA AGTAGAAGGG CGGTAGACTA CTCGTCAACT TTAGACCTTG ACGAAGACAA
 118 P S V F I F P P S D E Q L K S G T A S V
 481 GTGTGCCTGC TGAATAACTT CTATCCCAGA GAGGCCAAAG TACAGTGGAA GGTGGATAAC
 CACACGGACG ACTTATTGAA GATAGGGTCT CTCCGGTTTC ATGTCACCTT CCACCTATTG
 138 V C L L N N F Y P R E A K V Q W K V D N
 541 GCCCTCCAAT CGGGTAACTC CCAGGAGAGT GTCACAGAGC AGGACAGCAA GGACAGCACC
 CGGGAGGTTA GCCATTGAG GGTCTCTCA CAGTGTCTCG TCCTGTCGTT CCTGTCTGTT
 158 A L Q S G N S Q E S V T E Q D S K D S T
 601 TACAGCCTCA GCAGCACCTT GACGCTGAGC AAAGCAGACT ACGAGAAACA CAAAGTCTAC
 ATGTCGGAGT CGTCGTGGGA CTGCGACTCG TTTCGTCTGA TGCTCTTTGT GTTTCAGATG
 178 Y S L S S T L T L S K A D Y E K H K V Y
 661 GCCTGCGAAG TCACCCATCA GGGCCTGAGC TCGCCCGTCA CAAAGAGCTT CAACAGGGGA
 CGGACGCTTC AGTGGGTAGT CCCGGACTCG AGCGGGCAGT GTTCTCGAA GTTGTCCCTT
 198 A C E V T H Q G L S S P V T K S F N R G
 (SEQ ID NO.58)
 721 GAGTGTTAAG CTGATCCTCT ACGCCGGACG CATCGTGGCC CTAGTACGCA ACTAGTCGTA
 CTCACAATTC GACTAGGAGA TGCGGCCTGC GTAGCACCGG GATCATGCGT TGATCAGCAT
 218 E C O (SEQ ID NO.56)

FIG. 36

FIG. 37A

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Title: Antibody Fragment-Polymer Conjugates and Humanized Anti-IL-8

Monoclonal Antibodies; Inventor: Vanessa H. et al.

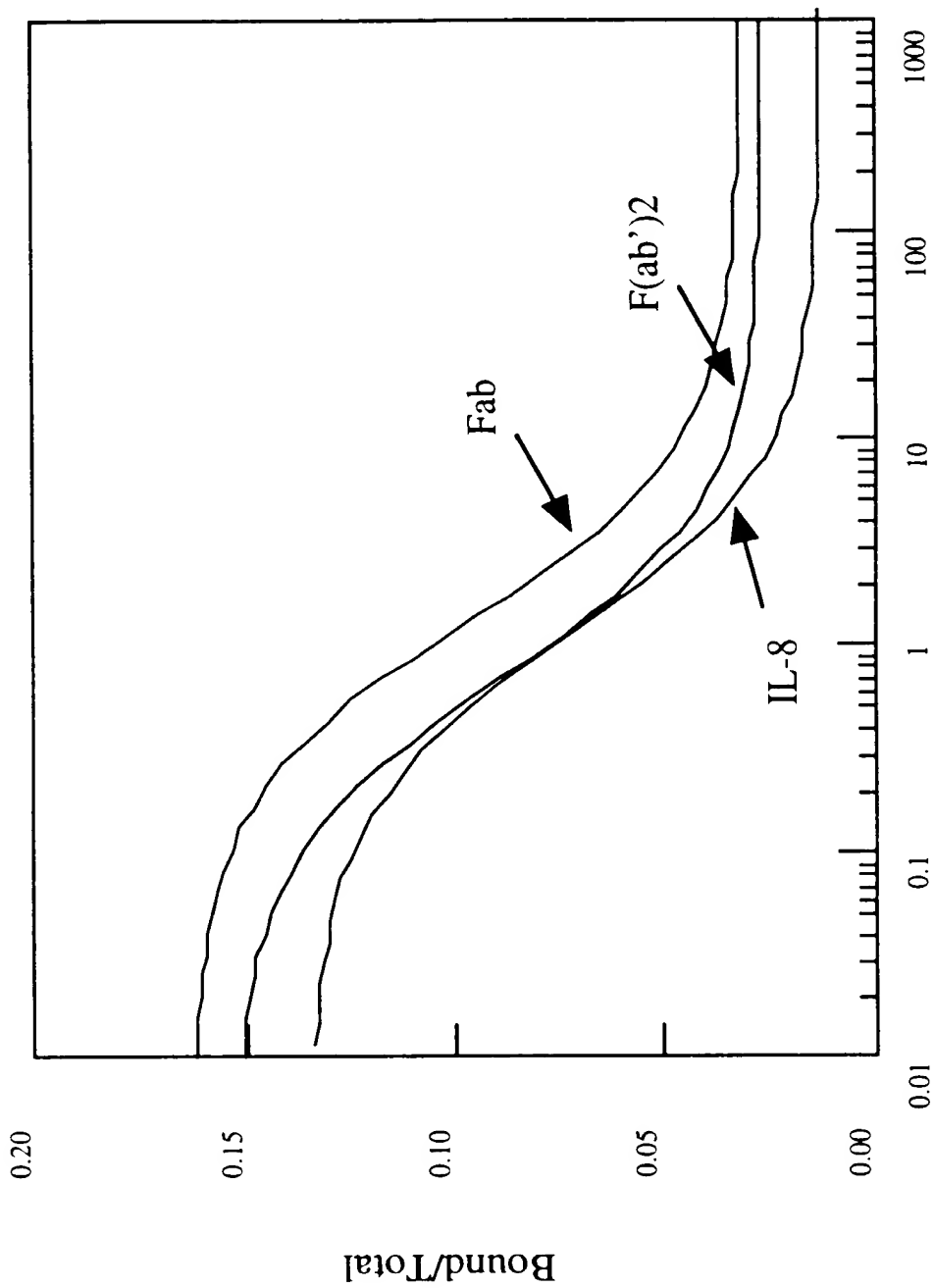
Application No.: 09 234,182 (Attorney Docket No. G-92ENT-093A)

46 141

1621 GAGGACAAGG TCGAAGAGCT ACTCTCCAAG AACTACCACC TAGAGAATGA AGTGGCAAGA
CTCCTGTTCC AGCTTCTCGA TGAGAGGTTC TTGATGGTGG ATCTCTTACT TCACCGTTCT
248 E D K V E E L L S K N Y H L E N E V A R

1681 CTCAAAAAGC TTGTCGGGGA GCGCTAA (SEQ ID NO.59)
GAGTTTTTCG AACAGCCCCT CGCGATT
268 L K K L V G E R O (SEQ ID NO.60)

FIG. 37B



Cold Ligand (nM)

FIG. 38

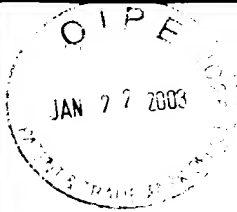
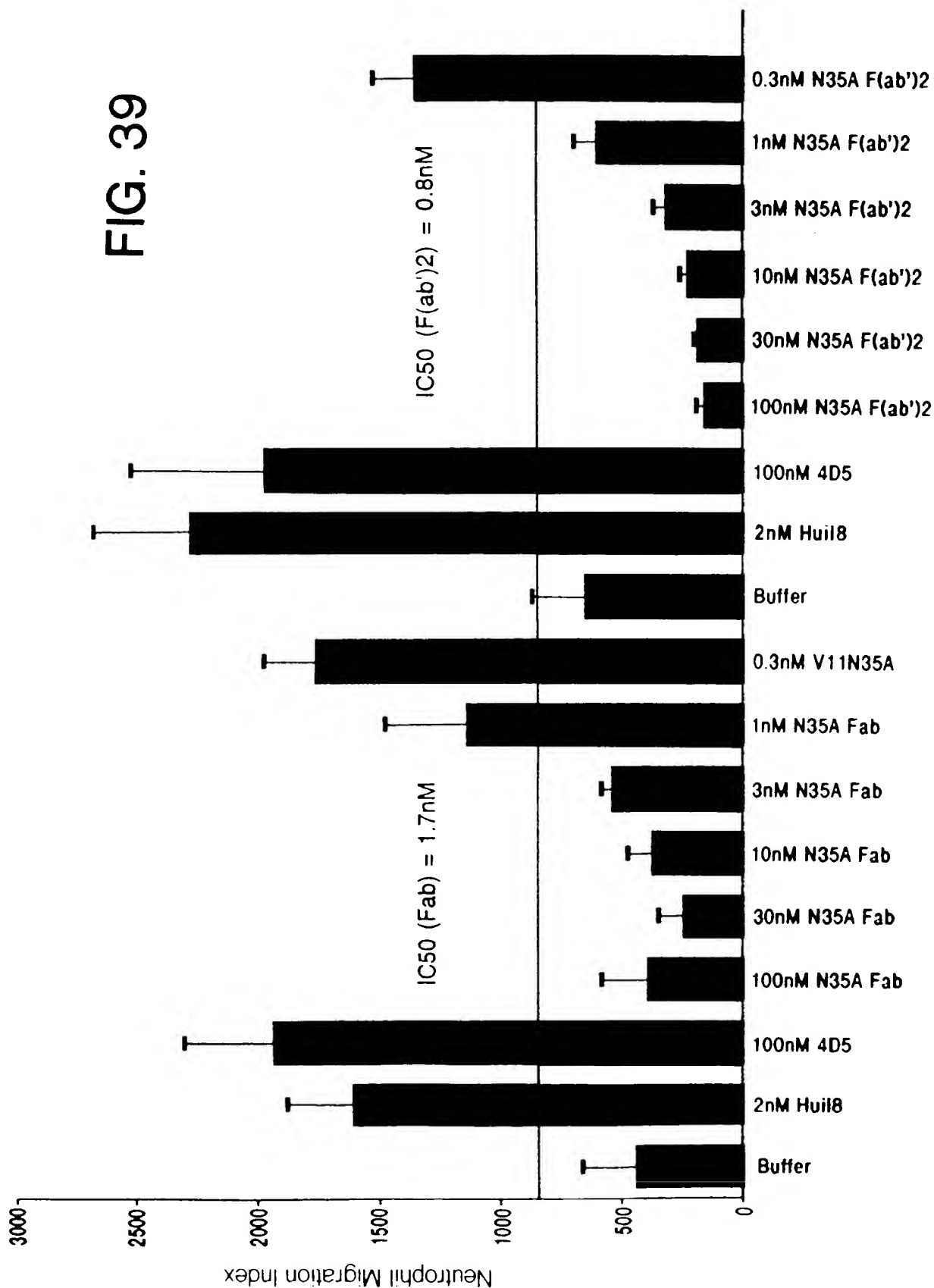


FIG. 39



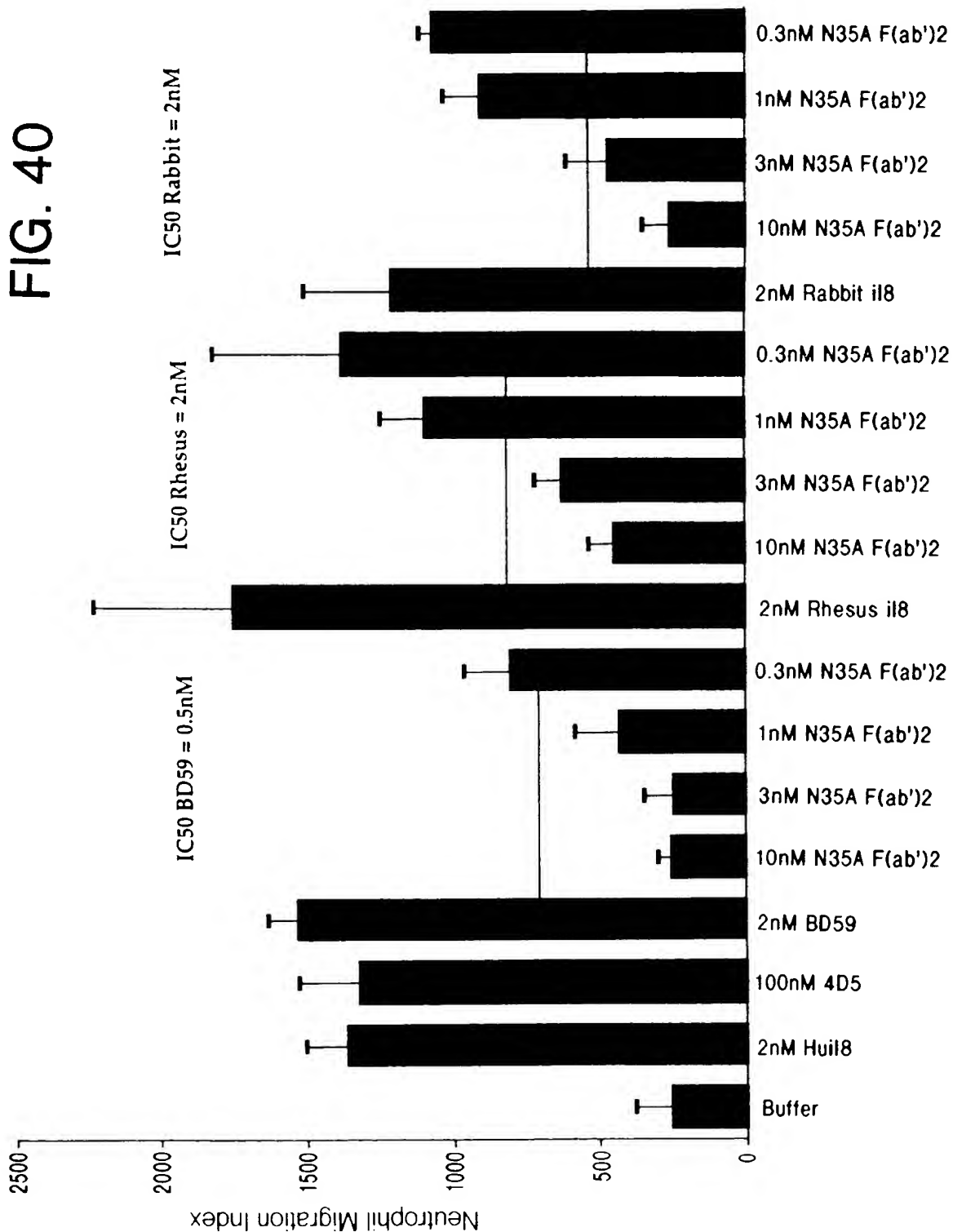


FIG. 41A

-23

FIG. 41B

FIG. 41C

FIG. 41D

-23

1301 CTACAAACGC GTACGGCTGAG GTTCAGCTAG TGCAGTCTGG CGGTGGCGCTG GTGCAGCCAG GGGGCTCACT CCGTTTGTCC TGTGCAGCTT CTGGCTACTC
GATGTTTGGC GATCGGACTC CAAGTCGATC ACGTCAGACC GCCACCGGAC CACGTCGGTC CCCCGAGTGA GGCAACACAGG ACACGTCGAA GACCGATGAG

scrFI
nciI
mspI
hpaII
dsaV
cauII
bsII
xmaI/pspAI
smaI
scrFI
nciI
dsaV
cauII
bsII
scrFI
mvaI
ecorII

FIG. 41E

FIG. 41F

FIG. 41G

FIG. 41H

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FIG. 41I

FIG. 41J

FIG. 41K

[illegible]

	fnu4HI	bsOFI	hinPI	hhaI/cfoI	nlaIV	nari	kasi	hinII/acyI	hgiCI	haeII	banI aciI	ahaII/bsaHI	340I	GATTGTAGCG	CGCCGCCCTAT	ACCTTGTCTG	CCTCCCCGCG	TTGCGTCCGG	GTGCATGGAG	CCGGGCCACC	TCGACCTGAA	TGGAAGCCGG	CGGCACCTCG

FIG. 41L

FIG. 41M



3801 TGGTCTTCGG TTTCCGTGTT TCGTAAAGTC TGGAAACGCG GAAGTCAGCG CCTGACACCA TTATGTTCCG GATCTGCATC GCAGGATGCT GCTGGCTACC
ACCAAGAGCC AAAGGCACAA AGCAATTCAG ACCTTTGCGC CTTCACTCGC GGGACGTGGT AATACAAGGC CTAGACGTAG CGTCTTACGA CGACCGATGG

3901 CTGTGGAACA CCTACATCTG TATTAACGAA GCGCTGGCAT TCACCCTGAG TGATTTTCT CTGGTCCCGC CGCATCCATA CCGCCAGTTG TTTACCCCTCA
GACACCTTGT GGATGTAGAC ATAATTGCTT CGCGACCGTA ACTGGGACTC ACTAAAAGA GACCAGGGCG GCGTAGGTAT GCGGTCAAC AAATGGAGT

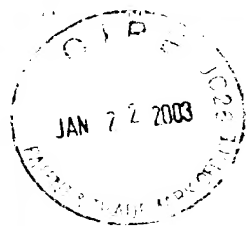
4001 CAACGTTCCA GTAACCGGC ATGTTTCATCA TCAGTAACCC GTATCGTGAG CATCTCTCT CGTTTCATCG GTATCATTAC CCCCATGAAC AGAAATTCCTC
GTTGCAAGGT CATTGGCCCG TACAAGTACT AGTCATTGGG CATAGCACTC GTAGGAGAGA GCAAAGTAGC CATAGTAATG GGGGTACTTG TCTTTAAGGG

3801 TGGTCTTCGG TTTCCGTGTT TCGTAAAGTC TGGAAACGCG GAAGTCAGCG CCTGACACCA TTATGTTCCG GATCTGCATC GCAGGATGCT GCTGGCTACC
ACCAAGAGCC AAAGGCACAA AGCAATTCAG ACCTTTGCGC CTTCACTCGC GGGACGTGGT AATACAAGGC CTAGACGTAG CGTCTTACGA CGACCGATGG

3901 CTGTGGAACA CCTACATCTG TATTAACGAA GCGCTGGCAT TCACCCTGAG TGATTTTCT CTGGTCCCGC CGCATCCATA CCGCCAGTTG TTTACCCCTCA
GACACCTTGT GGATGTAGAC ATAATTGCTT CGCGACCGTA ACTGGGACTC ACTAAAAGA GACCAGGGCG GCGTAGGTAT GCGGTCAAC AAATGGAGT

4001 CAACGTTCCA GTAACCGGC ATGTTTCATCA TCAGTAACCC GTATCGTGAG CATCTCTCT CGTTTCATCG GTATCATTAC CCCCATGAAC AGAAATTCCTC
GTTGCAAGGT CATTGGCCCG TACAAGTACT AGTCATTGGG CATAGCACTC GTAGGAGAGA GCAAAGTAGC CATAGTAATG GGGGTACTTG TCTTTAAGGG

FIG. 41N



cac8I
 sau96I
 tru9I haeIII/palI
 mseI asuI
 acII bslI nlaIII acII
 acII bslI nlaIII acII
 mnlI maeIII
 mnlI maeIII
 bpmI/gsuI[dcM-]
 4101 CCTTACACGG AGGCATCAAG TGACCAACA GGAAGAAACC GCCCTTAACA TGCCCGCTT TATCAGAAGC CAGACATTAA CGTCTCTGGA GAAACTCAAC
 GGAATGTGCC TCCGTAGTTC ACTGGTTTGT CCTTTTGTGG CCGGAATTGT ACCGGGCGAA ATAGTCTTCG GTCTGTAAAT CGGAAGACCT CTTTGAGTTG
 fnu4HI
 bsoFI
 aluI
 pvuII
 nspBII
 fnu4HI
 bsoFI
 bcgI
 bbvI
 mnlI bsh1236I
 fnuDII/mvnI
 bstUI
 hinPI
 hhaI/cfoI
 thai
 fnuDII/mvnI
 bstUI
 mnlI bsh1236I
 hphI
 4201 GAGCTGGACG CGGATGAACA GGCAGACATC TGTGAATCGC TTCACGACCA CGCTGATGAG CTTTACCGCA GCTGCCCTCG CGGTTTCGGT GATGACGGTG
 CTCGACCTGC GCCTACTTGT CCGTCTGTAG ACACCTTAGC AAGTGTCTGGT GCGACTACTC GAAATGGCGT CGACGGAGCG CGCAAAGCCA CTACTGCCAC
 aluI hgaI foki
 fnuDII/mvnI
 bstUI
 bsh1236I
 asp700
 mslI
 aluI
 acII
 bbvI
 bsh1236I
 hphI
 hgaI
 thai
 fnuDII/mvnI
 bstUI
 bsh1236I
 hinPI
 nspBII
 bsh1236I
 hinPI nspBII
 hhaI/cfoI
 acII
 4301 AAAACCTCTG ACACATGCAG CTCCCGGAGA CGGTACAGC TTGTCTGTAA CGGATGCCG GGAGCAGACA AGCCCGTCAG GCGCGTCAG CGGGTGTGG
 TTTTGGAGAC TGTTGACGTC GAGGCCCTCT GCCAGTGTG CCGGAGCTCT CCGGAGCTCT TCGGGCAGTC CCGGAGCTCT GCGGAGCTCT

FIG. 410

FIG. 41R

FIG. 41S

6001 ATTCTCTTAC TGTCATGCCA TCCGTAAGAT GCTTTTCTGT GACTGGTGAG TACTCAACCA ACTCATTCTG AGAATAGTGT ATCGCGCGAC CGAGTTGCTC
 TAAGAGAAATG ACAGTACGGT AGGCATTCTA CGAAAGACA CTGACCACTC ATGAGTGGT TCACTAAGAC TCTTATCACA TACGCGCGTG GCTCAACGAG
 foki nlaIII sfanI maeIII hphI csp6I ddel acil
 hgaI hinPI hhaI/cfoI hgaI/aspHI sau3AI mboI/ndeII[dam-]
 hinII/acyI hpaII hpaII scrFI nciI dsav cauII hincII/hindII aciI mspI thalI fnuDII/mvnI tru9I bsiHKAI maeII dsp1286 dpnI[dam+]
 ahaII/bsaHI bsh1236I msei bmyI ahaII/drai asp700 mboII bstYI/xhoII alwI[dam-]
 6101 TTGCCCGCG TCAACACGGG ATAATACCGC GCCACATAGC AGAATCTTAA AAGTGCTCAT CATTTGGAAA CGTTCTTCGG GCGGAAACT CTCRAGGATC
 AACGGCGCG AGTTGTGCC TATTATGGCG CGGTGTATCG TCTTGAAATT TTCACGAGTA GTACCTTTT GCAAGAAGCC CCGCTTTTGA GAGTTCTCTAG
 bsrI hgaI/aspHI bsp1286 eco57I mboII[dam-] sau3AI sfanI mboI/ndeII[dam-] dpnI[dam+] dpnII[dam-]
 alwI[dam-] bstYI/xhoII maeIII bssSI alw44I/snoI dpnI[dam+] dpnII[dam-] hphI
 6201 TTACCGCTGT TCAGATCCAG TTCGATGTAA CCCACTCGTG CACCCCACTG ATCTTCAGCA TCTTTTACTT TCACCCAGCGT TTCTGGGTGA GCAAAAACAG
 AATGGGACA ACTCTAGGTC AAGCTACATT GGGTGAGCAC GTGGGTTGAC TAGAAGTCGT AGAAATGAA AGTGGTCGCA AAGACCCACT CGTTTTTGTC
 aciI fnu4HI bsoFI mboII earI/ksp632I sspl
 6301 GAAGGCAAAA TGCCGCAAAA AAGGGAATAA GGGGACACG GAATGTTGA ATACTCATAC TCTTCCTTTT TCAATATTAT TGAAGCATTT ATCAGGTTTA
 CTTCCGTTTT ACGGCGTTTT TTCCCTTATT CCGGCTGTGC CTTTACAAC TATGAGTATG AGAAGGAAAA AGTATAATA ACTTCGTAAA TAGTCCCAAT

FIG. 41T

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

	nlaIII	hinPI
	rcaI	thaI
	bspHI acII	fnuDII/mvni
	bsmAI bsrBI	bstUI
		bsh1236I
		aciI
		nlaIV hhaI/cfoI
6401	TGTCTCATG AGCGGATACA TATTGAATG TATTAGAAA AATAAACAAA TAGGGTTCC GCGACATTT CCCCgAAAg TGCCACCTGA CTCTAAGAA	maeII hinII/acyI ahaII/bsaHI aatII ddeI
	AACAGAGTAC TCGCCTATGT ATAAACTTAC ATAAATCTTT TTATTTGTtT ATCCCCAAGG CGCGTGTAaA GGGGCTTTTC ACgGTGGACT GCAGATTCTT	
		sau96I
		haeIII/palI
		asuI mboII
		ecoOI09I/draII
	nlaIII	mnlI bpuAI
	rcaI tru9I	bssSI bbsI
	bspHI mseI	
6501	ACCATTATTA TCATGACATT AACCTATAAA AATAGCGGTA TCACGAGGCC CTTTCGTCTT CAA	(SEQ ID NO 61)
	TGGTAATAAT AGTACTGTAA TTGGATATTT TTATCCGCAT AGTGCTCCGG GAAAGCAGAA GTT	

FIG. 41U

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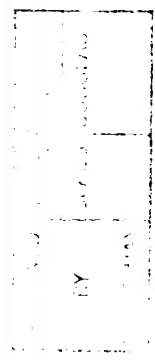
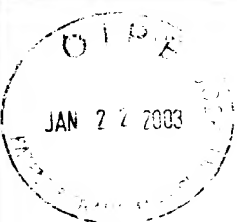
>length: 6563

```

aatII(GACGTC): 1645 6489
acc65I(GGTACC): 403 823
accI(GTMKAC): 1093 1963 4449
accII(TCCGGA): 3867[dam-]
accI(CCGC): 178 542 805 877 1340 1750 1826 2011 2039 2043 2182 2242 2384 2492 2501 2504
2628 2781 2784 2787 2906 2926 3005 3045 3094 3141 3226 3241 3309 3342 3367 3412
3436 3448 3490 3544 3597 3613 3619 3700 3838 3967 3970 3981 4139 4155 4210 4266
4351 4390 4400 4442 4467 4505 4518 4544 4561 4604 4611 4632 4723 4751 4878 4897
5018 5128 5263 5272 5634 5725 5916 5962 6083 6127 6204 6313 6412 6459
see hinI
acyI 1307 4678
afIIII(ACRYGT): 1788
ageI(ACCGGT): 1645 1813 2616 2637 2751 3408 6107 6489
ahaII/bsaHI(GRCGYC): 5435 5454 6146
ahaII/draI(TTTAAA): 72 121 252 320 398 532 589 648 1126 1144 1167 1325 1386 1906 2054 2075 2126
ahdI/eamI105I(GACNNNNNGTC): 346 5566
aluI(AGCT): 2218 2233 2889 3292 4202 4259 4270 4319 4338 4619 4845 4935 4981 5238 5759 5859
5922
alw44I/snoI(GTGCAC): 1831 4494 4992 6238
alwI(dam-)(GGATC): 412 413 712 713 1171 1471 2578 2579 3300 3870 5245 5319 5331 5416 5429 5893
6196 6214
alwNI(dcm-)(CAGNNNCTG): 1117 1385 5089
apaI(GGGCCC): 1695
apaLI/snoI(GTGCAC): 1831 4494 4992 6238
apoI(RAATTY): 1 391 4093
apyI(dcm+)(CCWGG): 640 999 1347 1357 1449 1665 1713 1755 1764 2333 3262 3645 4705 4826 4839
aseI/asnI/vspI(ATTAAAT): 5742
asnI see aseI
asp700(GAANNNTTC): 905 930 4234 6166
asp718(GGTACC): 403 823
asphI see hgiAI
aspi see tth111I
asuI(GGNCC): 1119 1195 1425 1434 1446 1512 1695 1696 1752 2155 2375 2727 3002 3090 3339 3463

```

FIG. 41V



Stop Template Primer

SL.97.2 5' CAT GGT ATA GGT TAA ACT TAT TTA CAC 3' (SEQ ID NO.63)

NNS Randomization Primer

SL.97.3 5' CAT GGT ATA GGT NNS ACT TAT TTA CAC 3' (SEQ ID NO.64)

FIG. 42

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Randomization of Position N35 of Variable Light Chain CDR-1 Amino Acid Frequency

Phage Display (NNS Codon Library) Sort #3

Amino Acid	Frequency	% Total	IC50 (nM)
Asparagine (wt)	1	5.6	4.9
Glycine	6	16.6	3.1
Aspartic Acid	3	16.6	3.1
Glutamic Acid	4	22.2	0.1
Alanine	2	5.6	0.2
Lysine	1	5.6	ND
Serine	1	1.9	ND

FIG. 43A

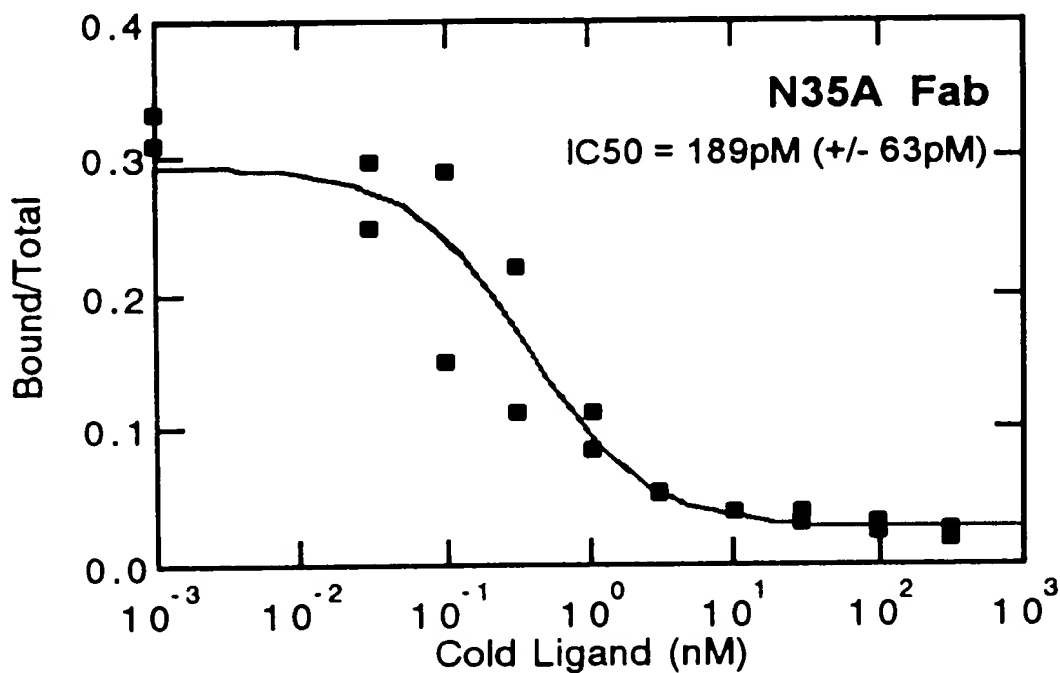


FIG. 43B

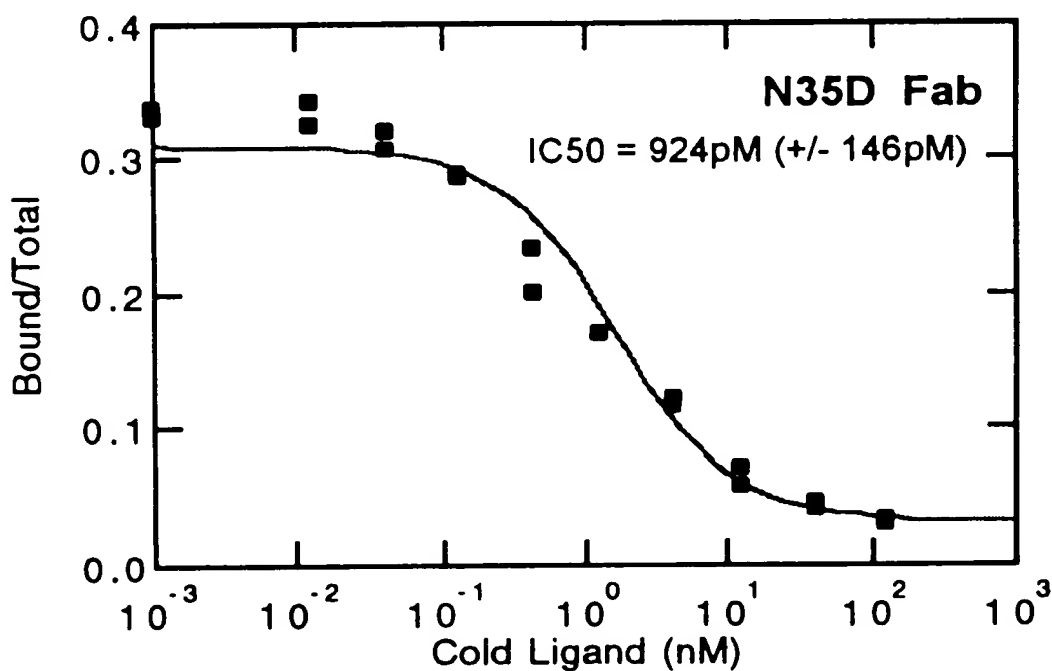


FIG. 43C

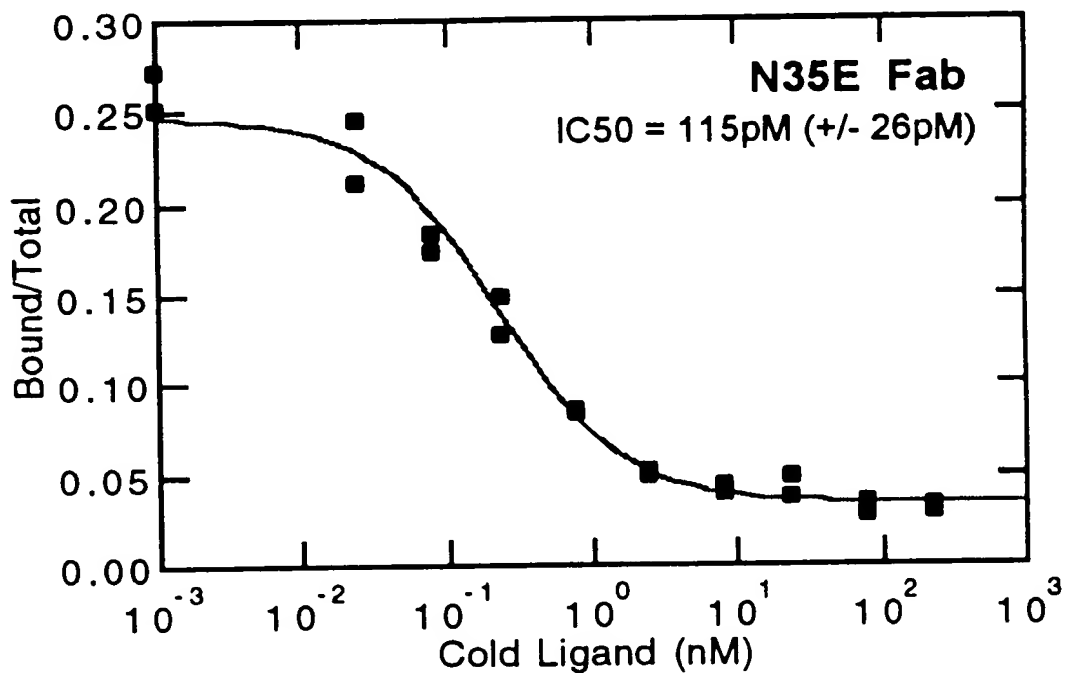


FIG. 43D

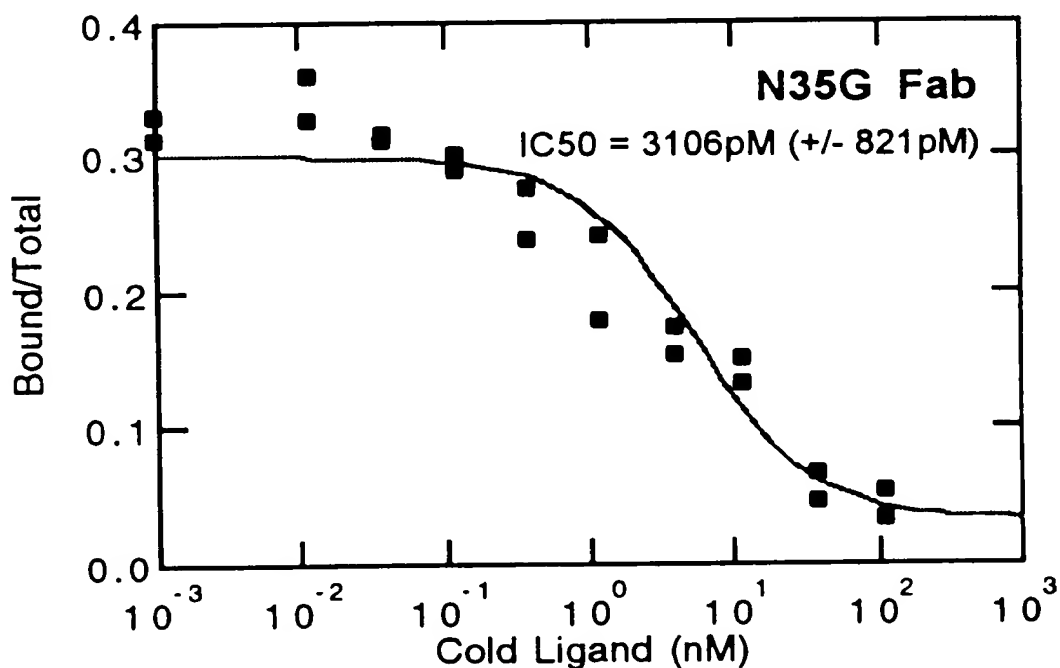
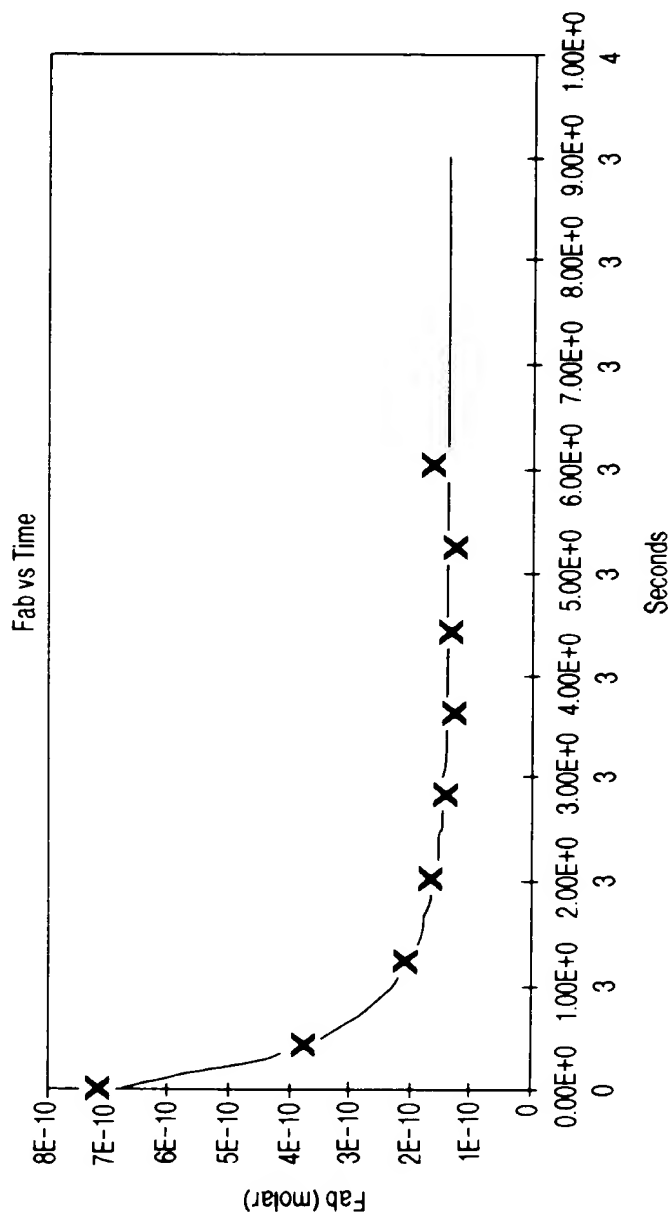
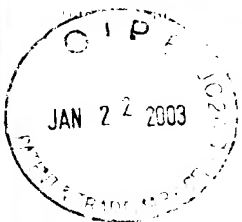


FIG. 43E



Representative Conc versus Time Plot. Shown is the kinetic data for 6G4V11N35A.F(ab')₂.

SAMPLE	ka	kd	Kd
6G4V11N35A-Fab	ND	ND	114pM
6G4V11N35A-F(ab') ₂	2.0x10 ⁶	2.1x10 ⁻⁴	109pM
6G4V11N35E-Fab	4.7x10 ⁶	2.6x10 ⁻⁴	54pM

FIG. 44



1 ATGAAAAAGA ATATCGCATT TCTTCTTGCA TCTATGTTTCG TTTTCTCTAT TGCTACAAAC
TACTTTTCT TATAGCGTAA AGAAGAACGT AGATACAAGC AAAAAAGATA ACGATGTTTG
-23 M K K N I A F L L A S M F V F S I A T N

61 GCATACGCTG ATATCCAGAT GACCCAGTCC CCGAGCTCCC TGTCCGCCTC TGTGGGCGAT
CGTATGCGAC TATAGGTCTA CTGGGTCAGG GGCTCGAGGG ACAGGCGGAG ACACCCGCTA
-3 A Y A D I Q M T Q S P S S L S A S V G D

121 AGGGTCACCA TCACCTGCAG GTCAAGTCAA AGCTTAGTAC ATGGTATAGG TGAGACGTAT
TCCAGTGGT AGTGGACGTC CAGTTCAGTT TCGAATCATG TACCATATCC ACTCTGCATA
18 R V T I T C R S S Q S L V H G I G E T Y

181 TTACACTGGT ATCAACAGAA ACCAGGAAAA GCTCCGAAAC TACTGATTTA CAAAGTATCC
AATGTGACCA TAGTTGTCTT TGGTCCTTTT CGAGGCTTTG ATGACTAAAT GTTTCATAGG
38 L H W Y Q Q K P G K A P K L L I Y K V S

241 AATCGATTCT CTGGAGTCCC TTCTCGCTTC TCTGGATCCG GTTCTGGGAC GGATTTCACT
TTAGCTAAGA GACCTCAGGG AAGAGCGAAG AGACCTAGGC CAAGACCCTG CCTAAAGTGA
58 N R F S G V P S R F S G S G S G T D F T

301 CTGACCATCA GCAGTCTGCA GCCAGAAGAC TTCGCAACTT ATTACTGTTT ACAGAGTACT
GACTGGTAGT CGTCAGACGT CGGTCTTCTG AAGCGTTGAA TAATGACAAG TGTCTCATGA
78 L T I S S L Q P E D F A T Y Y C S Q S T

361 CATGTCCCGC TCACGTTTGG ACAGGGTACC AAGGTGGAGA TCAAACGAAC TGTGGCTGCA
GTACAGGGCG AGTGCAAACC TGTCCCATGG TTCCACCTCT AGTTTGCTTG ACACCGACGT
98 H V P L T F G Q G T K V E I K R T V A A

421 CCATCTGTCT TCATCTTCCC GCCATCTGAT GAGCAGTTGA AATCTGGAAC TGCTTCTGTT
GGTAGACAGA AGTAGAAGGG CCGTAGACTA CTCGTCAACT TTAGACCTTG ACGAAGACAA
118 P S V F I F P P S D E Q L K S G T A S V

481 GTGTGCCTGC TGAATAACTT CTATCCCAGA GAGGCCAAAG TACAGTGGAA GGTGGATAAC
CACACGGACG ACTTATTGAA GATAGGGTCT CTCCGGTTTC ATGTCACCTT CCACCTATTG
138 V C L L N N F Y P R E A K V Q W K V D N

541 GCCCTCCAAT CGGGTAACTC CCAGGAGAGT GTCACAGAGC AGGACAGCAA GGACAGCACC
CGGGAGGTTA GCGCATTTGAG GGTCTCTCTA CAGTGTCTCG TCCTGTCGTT CCTGTCTGTG
158 A L Q S G N S Q E S V T E Q D S K D S T

601 TACAGCCTCA GCAGCACCCT GACGCTGAGC AAAGCAGACT ACGAGAAACA CAAAGTCTAC
ATGTCGGAGT CGTCGTGGGA CTGCGACTCG TTTCGTCTGA TGCTCTTTGT GTTTCAGATG
178 Y S L S S T L T L S K A D Y E K H K V Y

661 GCCTGCGAAG TCACCCATCA GGGCCTGAGC TCGCCCGTCA CAAAGAGCTT CAACAGGGGA
CGGACGCTTC AGTGGGTAGT CCCGGACTCG AGCGGGCAGT GTTCTCTGAA GTTGTCCCCT
198 A C E V T H Q G L S S P V T K S F N R G

721 GAGTGTTAAG CTGATCCTCT ACGCCGGACG CATCGTGGCC CTAGTACGCA ACTAGTCGTA
CTCACAATTC GACTAGGAGA TGCGGCCTGC GTAGCACC GG GATCATGCGT TGATCAGCAT
218 E C O (SEQ ID NO.62)

(SEQ ID NO.65)

FIG. 45

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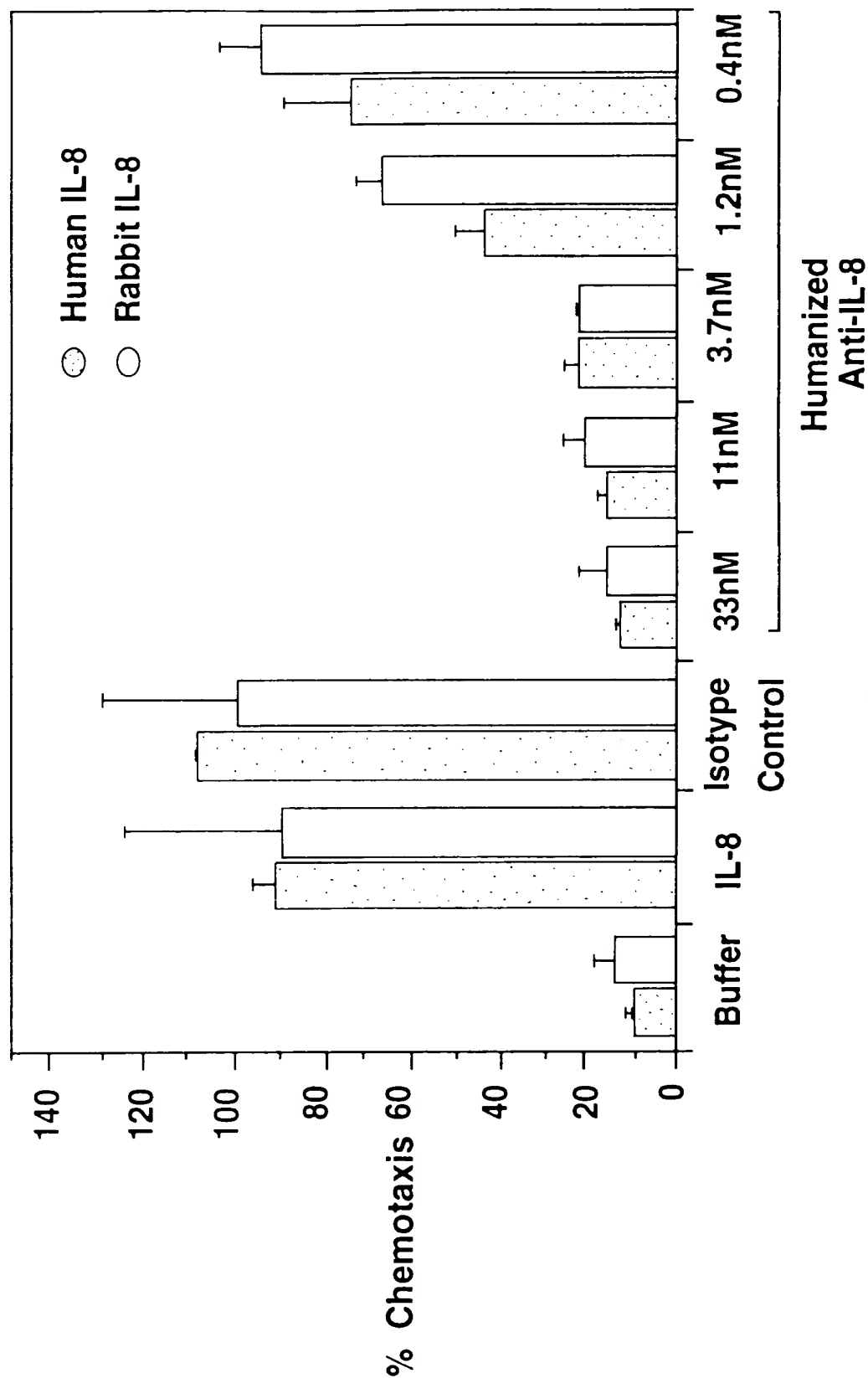


FIG. 46

N35AH1upr
5'-CTAGTGCAGTCTGGCGGTGGCCTGGTGCAGCCAGGGGGCTCACTCCGTTTGTCTGTGCAGCTTCTGGCTACTCCTTC-3'
(SEQ ID NO.66)

N35AH1wr
5'-TCGAGAGGAGTAGCCAGAGCTGCACAGGACAAACGGAGTGAGCCCCCTGGCTGCACCAAGGCCACCGCCAGACTGCACCT
AG-3'
(SEQ ID NO.67)

Bold indicates nucleotide change destroying PvuII site.

FIG. 47

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```

cac8I
aluI
sati
sacI
hgiJII
hgiAI/aspHI
ec1136II
bsp1286
bsiHKAI
bmyI
banII
taqI
sau3AI aluI
mboI/ndeII[dam-]
dpnI[dam+]
pvuI/bepCI
pleI dpnII[dam-]
hinfi taqI[dam-]
rmaI mcrI pvuI
maeI bsiEI nspBII
bfaI taqI[dam-]
scrFI mvaI
ppu10I nsII/avaIII
nlaIII
sphi
nspI
nspHI
cac8I
sexAI bsmFI nlaIV
cac8I
1 TTCGAGCTCG CCCGACATTG ATTATTGACT AGAGTCGATC GACAGGTGTG GAATGTGTGT CAGTTAGGGT GTGGAAGTC CCCAGGCTCC CCAGCAGGCA
AAGCTCGAGC GGGCTGTAAC TAATAACTGA TCTCAGCTAG CTGTCGACAC CTTACACACA GTCAATCCCA CACCTTTTCC GGTCCGAGG GGTCTGTCGT
sfaNI
ppu10I nsII/avaIII
nlaIII
sphi
nspI
nspHI
cac8I
scrFI mvaI
ecoRII
dsav
bstNI
apyI[dcm+]
bsaJI
bsmFI nlaIV
cac8I
101 GAAGTATGCA AAGCATGCAT CTCATATTAGT CAGCAACGAG GTGTGGGAAG TCCCCAGGCT CCCCAGCAGG CAGAGAGTATG CAACCATGTC ATCTCAATTA
CTTCATACGT TTGCTACGTA GAGTTAATCA GTCGTTGGTC CACACCTTTC AGGGGTCCGA GGGGTGCTCC GTCTTCATAC GTTTCGTACG TAGAGTTAAT
nlaIII
styI
ncoI
bslI dsal
aciI foki
bsmFI
201 GTCAGCAACC ATAGTCCCGC CCCTAACTCC GCCCATCCCG CCCTAACTC CCCCAGTTC CGCCATTCT CGGCCCATG GCTGACTAAT TTTTTTATT
CAGTCGTTGG TATCAGGGCG GGGATTGAG GGGTAGGGC GGGGATTGAG GCGGGTCAAG GCGGGTAAGA GCGGGGTAC CGACTGATTA AAAAAATAA

```

FIG. 48A

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301 TATGCAGAG CCGAGGCCG CTGGCCTCT GAGCTATTCC AGAAGTAGTG AGGAGGCTTT TTTCGAGGCC TAGGCTTTTG CAAAAGCTA GCTTATCCGG
 ATACGTCTCC GGCTCCGGC GAGCCGGAGA CTCGATAAGG TCTTCATCAC TCCTCCGAAA AAACCTCCGG ATCCGAAAAC GTTTTTCGAT CGAATAGGCC
 401 CGCGGAACGG TGCATTGGAA CGCGGATTCC CCGTGCCAAG AGTGACGTAA GTACCGCCTA TAGAGCGGATA AGAGGATTTT ATCCCGCTG CCATCATGTT
 GGCCCTTGCC ACGTAACCTT CGGCCTAAGG GGCACGGTTC TCACTGCATT CATGGCGGAT ATCTCGCTAT TCCTCTAAA TAGGGCGCAC GGTAGTACCA
 501 TCGACCATTT AACTGCATCG TCGCCGTGTC CCAAAATATG GGGATTGGCA AGAACGGAGA CCTACCCCTGG CCTCCGCTCA GGAACGAGTT CAAGTACTTC
 AGTCGTAACT TTAGCTAGC AGCGGCACAG GGTTTTATAC CCCTAACCGT TCTTGCCCTCT GGATGGGACC GGAGGCGAGT CCTTGCTCAA GTTCATGAAG

FIG. 48B

FIG. 48C

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```

          hgaI
          hinII/acyI
          ahaiI/bsaHI
scrFI
mvaI      mnII
ecorII
dsaV
bstNI     ecoNI
          apyI[dcm+] mnII
          bsaJI     bsII ddeI
          901 GTGACAAGGA TCATGCAGGA ATTTGAAAGT GACACGTTTT TCCAGAAAT TGATTTGGGG AAATATAAAC CTCCTCCCGA ATACCCAGGC GTCCTCTCTG
          CACTGTTCT AGTACGTCCT TAAACTTTCA CTGTGCAAAA AGGTCTTTA ACTAAACCC CTATATTTG GAGAGGGTCT TATGGGTCCG CAGGAGAGAC

scrFI
mvaI
ecorII
dsaV
bstNI
apyI[dcm+]
sau96I
avaII

          nlaIII
          sau3AI
          mboI/ndeII[dam-]
          dpnI[dam+]
          dpnII[dam-]
          maeIII alwI[dam-] apoI
          maeIII
          afIIII
          901 GTGACAAGGA TCATGCAGGA ATTTGAAAGT GACACGTTTT TCCAGAAAT TGATTTGGGG AAATATAAAC CTCCTCCCGA ATACCCAGGC GTCCTCTCTG
          CACTGTTCT AGTACGTCCT TAAACTTTCA CTGTGCAAAA AGGTCTTTA ACTAAACCC CTATATTTG GAGAGGGTCT TATGGGTCCG CAGGAGAGAC

scrFI
mvaI
ecorII
dsaV
bstNI
apyI[dcm+]
sau96I
avaII

          asuI mnII sfanI accI mboII
          1001 AGTCCAGGA GGAAGAGGC ATCAAGTATA AGTTTGAAGT CTACGAGAAG AAAGACTAAC AGGAAGATGC TTTCAGGTC TCTGTCCCC TCCTAAAGCT
          TCCAGGTCCT CCITTTTCCG TAGTTCATAT TCAAACTTCA GATGCTCTTC TTTCTGATTG TCCTTCTAGG AAAGTTCAAG AGACGAGGG AGGATTTTCA

          sfanI mboII mnII aluI
          ^END DHR

          styI
          bsaJI
          sau3AI
          mboI/ndeII[dam-]
          dpnI[dam+]
          dpnII[dam-]
          alwI[dam-]
          bstYI/xhoII
          cac8I
          dsal bsmFI
          bsaJI
          ppulOI
          nsII/avaIII
          1101 ATGCATTTT ATAGACCAT GGGACTTTTG CTGGCTTTAG ATCCCTTGG CTTCGTTAGA ACGCAGCTAC AATTAATACA TAACCTTATG TATCATACAC
          TACGTAAAAA TATTCTGGTA CCTGAAAAAC GACCGAAATC TAGGGGAACC GAAGCAATCT TCGGTCGATG TTAATTATGT ATTGGAATAC ATAGTATGTG

          sau96I
          avaII
          asuI
          scrFI
          mvaI
          ecorII

```

FIG. 48D

FIG. 48F



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```

scrFI      hinPI      nlaIV      hgiAI/aspHI      bsp1286
mvaI      narI      bsiHKAI      bmyI      mspI
ecoRII     hinII/acyI  hgiCI      cac8I      hpaII
ecoNI      haeII      bnu4HI      scrFI
dsav       banI      bsoFI      nciI
bstNI      ahaII/bsaHI  aciI apaII/snoI dsav
bsII       ddel hhaI/cfoI nspBII alw4I/snoI cauII scfI
1801 CTGGGCTGCC TGGTCAAGGA CTACTTCCCG GAACCGGTGA CGGTGTCTGT GAACTCAGGC GCCCTGACCA CGGCGCTGCA CACCTTCCCG GCTGTCTCTAC
GACCCGACGG ACCAGTTCTT GATGAAGGGG CTTGGCCACT GCCACAGCAC CTTGAGTCCG CGGACTGGT GCCCGCACGT GTGGAAGGGC CGACAGGATG
147 L G C L V K D Y F P E P V T V S W N S G A L T S G V H T F P A V L Q

fnu4HI      fnu4HI      nlaIV      hgiCI      bfiI      hinfi
bsoFI      rnaI      bsp1286 maeI      bfaI aluI bsp1286
maeIII     hphI bmyI mnlI bbvI bmyI
bsu36I/mstII/sauI ddel mnlI mnlI ddel hphI bmyI mnlI bbvI bmyI
1901 AGTCCTCAGG ACTCTACTCC CTCAGCAGCG TGGTGAAGTGT GCCCTCTAGC ACCTTGGGCA CCCAGACCTA CATCTGCAAC GTGAATCACA AGCCCGACAA
TCAGGAGTCC TGAGATGAGG GAGTCGTCGC ACCACTGACA CGGAGATCG TCGAACCGGT GGTCTGGAT GTAGAGCTTG CACTTAGTGT TCGGTCGT
181 S S G L Y S L S S V V T V P S S S L G T Q T Y I C N V N H K P S N

ahdI/eam1105I
sau96I
avaII

scrFI      mvaI      asuI
ecoRII     dsav
bstNI      nlaIV      mboII
bsaJI      bsmFI      bpuAI
apyI[dcM+] apyI[dcM+] bbsI mnlI
2001 CACCAAGGTG GACAAGAAAG TTGAGCCCCAA ATCTTGTGAC AAAACTCACA CATGCCACCC GTGCCACGCA CCTGAAGTCC TGGGGGGACC GTGAGTCTTC
GTGGTTCAC CTGTTCTTTC AACTCGGGTT TAGAACACTG TTTTGAAGTGT GTACGGGTGG CACGGGTCTG CACTTGAGG ACCCCCCCTGG CACTCAGAAAG
214 T K V D K K V E P K S C D K T H T C P P C P A P E L L G G P S V F

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FIG. 48G

[illegible]

FIG. 48H



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```

scrFI
nciI
mspI
hpaII
dsav
cauII
xmaI/pspAI
smaI
scrFI
nciI
dsav
cauII
rsal
fokI
bslI bsaJI mboII
csp6I bslI bsaJI mboII
bspl407I/bsrGI bslI auaI earI/ksp632I
avaI
2401 CAGCCCCGAG AACACACAGG GTACACCGTG CCCCCATCCC GGAAGAGAT GACCAAGAAC CAGGTCAGCC TGACCTGCCT GGTCAAAGGC TTCTATCCCA
GTCGGGGCTC TTGGTGCCA CATGTGGGAC GGGGGTAGGC CCGTCTCTA CTGGTTCTTG GTCCAGTCGG ACTGGACGGA CCAGTTCCG AAGATAGGCT
347 Q P R E P Q V Y T L P P S R E E M T K N Q V S L T C L V K G F Y P S
mspI
hpaII
fnu4HI
bsoFI
bsvI
bsrDI bsaJI
melI bsaJI
2501 GCGACATCGC CGTGGACTGG GAGAGCAATG GCGAGCCGGA GAACAACTAC AAGACCACGC CTCCTGTCCT GGACTCCGAC GGCTCCTTCT TCCTCTACAG
CGCTGTAGCG GCACCTCACC CTCTCGTTAC CGCTCGGCCT CTGTGTGATG TTCTGGTGG GAGGACACCA CCTGAGGCTG CCGAGGAAGA AGGAGATGTC
381 D I A V E W E S N G Q P E N N Y K T T P P V L D S D G S F F L Y S
pleI
hinfI
nlaIV mboII scfI cac8I
mnlI
391 K L T V D K S R W Q Q G N V F S C S V M H E A L H N H Y T Q K S L
mboII
bpuAI
maeII
fnu4HI
bsoFI
bsvI
bspMI bsaJI
hphI
dsal
414 K L T V D K S R W Q Q G N V F S C S V M H E A L H N H Y T Q K S L

```

FIG. 48I

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FIG. 48J

FIG. 48K

FIG. 48L

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alul
sstl
saci
hgiJII
hgiAI/asphi
ecll36II
bsp1286
bslHKAl

bsmFI bmyI

rsal
bpml/gsuI[dcM-]
bsrI csp6I
tthIII/aspl banII acII

nlaIII fokI
TGGTCATGA TCATCCCTTT TCTAGTAGCA ACTGCAACTG GAGTACATTC AGATATCCAG ATGACCACGT CCCCAGGCTC CCTGTCCGCC TCTGTGGGCG
ACCA GTACAT AGTAGGAAAA AGATCATCGT TGACGTTGAC CTCATGTTAAG TCTATAGGTC TACTGGGTCA GGGGTGCAG GGACAGGGCG AGACACCCGC

D I O M T O S P S S L S A S V G D

1

[illegible]

FIG. 48M

FIG. 48N

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[illegible]

Fig. 480

FIG. 48P

FIG. 48Q

FIG. 48B

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mspI nlaIV hgiII taqI
 hpall hgiIII bani mnlI
 nael bsp1286 bmyI
 cfr101/bsrFI aluI nlaIV
 maelI cac81 auI
 5301 TTCTCGGCA CGTTCGGCGG CTTTCGCCGT CAAGCTCTAA ATCGGGGGCT CCCTTTAGG TTCCGATTTA GTGCTTTACG GCACCTCGAC CCAAAAAAAC
 AAAGAGCGGT GCAAGCGGCC GAAAGGGCA GTTCGAGATT TAGCCCCCGA GGGAAATCCC AAGGTAAAT CAGGAATGC CGTGAGCTG GGGTTTTTTG
 maelI haelII/palI
 dralII sau96I
 bsaI asuI
 hphI
 5401 TTGATTTGGG TGATGGTTCA CGTAGTGGG CATCGCCCTG ATACACGGTT TTTCGCCCTT TGACGTTGGA GTCCACGTTT TTTAATAGTG GACTCTTGT
 AACTAAACCC ACTACCAAGT GCATCACCCG GTAGCGGAC TATCTGCCAA AAAGCGGAA ACTGCAACCT CAGGTGCAAG AAATTATCAC CTGAGAACAA
 bslI
 bslI auaI
 5501 CCAAACTGGA ACAACACTCA ACCCTATCTC GGGCTATTCT TTTGATTTAT AAGGGATTTT GCGGATTTGG GCCTATTGGT TAAAAATGA GCTGATTTAA
 GGTTCGACCT TGTTCGAGT TGGGATAGAG CCGGATAAGA AACTAAATA TTCCCTAAAA CGGCTAAGC CGGATAACCA ATTTTACT CGACTAAAT
 thal fnuDII/mvnl maelI
 tru9I apoI tru9I psp1406I
 msel bstUI msel tru9I
 apoI bsh1236I sspI msel
 5601 CAAAAATTTA ACGCGAATTT TAACAAATA TTAACGTTTA CAATTTTATG GTGCACCTCTC AGTACAATCT GCTCTGATGC CGCATAGTTA AGCCAACTCC
 GTTTTAAAT TCGGCTTAA ATTTTATAT AATTGCAAT GTTAAATAAT CACGTGAGAG TCATGTTAGA CGAGACTACG CGGTATCAAT TCGGTTGAGG
 hgiAI/aspHI
 bsp1286
 bsiHKAI
 bmyI ddeI
 apaLI/snoI rsal
 alw4I/snoI csp6I
 5701 GCTATCGCTA CGTACTGGG TCATGGCTGC GCGCCGACAC CCGCTGACGC GCGCTGACGG GCTTGCTGTC TCCCGGCATC CGCTTACAGA
 CGATAGCGAT GCACTGACCC ACTACCGACG CCGGGCTGTG GCGGCTGTG GCGGACTGCC CGAGACTGCG CGAACAGACG AGGCGCGTAG CGGAATGTCT
 hinPI
 hhaI/cfoI
 thal
 fnuDII/mvnl
 bstUI
 nspBII bsh1236I
 acilI hgal
 5701 GCTATCGCTA CGTACTGGG TCATGGCTGC GCGCCGACAC CCGCTGACGC GCGCTGACGG GCTTGCTGTC TCCCGGCATC CGCTTACAGA
 CGATAGCGAT GCACTGACCC ACTACCGACG CCGGGCTGTG GCGGCTGTG GCGGACTGCC CGAACAGACG AGGCGCGTAG CGGAATGTCT
 maelII
 maelII bsrI nlaIII hhaI/cfoI
 bsaI tthlII/aspI bbvI
 5701 GCTATCGCTA CGTACTGGG TCATGGCTGC GCGCCGACAC CCGCTGACGC GCGCTGACGG GCTTGCTGTC TCCCGGCATC CGCTTACAGA
 CGATAGCGAT GCACTGACCC ACTACCGACG CCGGGCTGTG GCGGCTGTG GCGGACTGCC CGAACAGACG AGGCGCGTAG CGGAATGTCT

FIG. 48S

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[illegible]

FIG. 48T

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6201 bssSI maeIII taqI alwI[dam-] aciI bstYI/xhoII
 CTGGATCGAA CTGGATCTCA ACAGCGGTAA GATCCTTGAG AGTTTTCGCC CCGAAGAAGC TTTTCCAATG ATGAGCACTT TTAAGTTCT
 GTGCTCACCC AATGTAGCTT GACCTAGAGT TGTGCGCATT CTAGGAAGCTC TCAAAAGCGG GGCTTCTTGC AAAGGTTAC TACTCGTGAA AATTCAAGA
 sau3AI nspBII sau3AI mboI/ndeII[dam-] maeII
 mboI/ndeII[dam-] dpnI[dam+] psp1406I
 dpnI[dam+] dpnII[dam-] xmnI
 bstYI/xhoII alwI[dam-] asp700
 bsrI dpnII[dam-] alwI[dam-] mboII
 bstYI/xhoII
 hgiAI/aspHI
 bsp1286 tru9I
 bsiHKA1 msel
 bmyI ahaIII/draI
 6301 GCTATGTGC GCGGTATTAT CCGTGTATGA CGCCGGGCAA GAGCACTCG GTCGCCGCAT ACACATTCT CAGATGACT TGGTTGAGTA CTCACCAGTC
 CGATACACC CGCCATAATA GGGCACTACT GCGGCCCGTT CTCGTTGAGC CAGCGGGCGTA TGTGATAAGA GTCTTACTGA ACCAACTCAT GAGTGGTCAG
 scrFI
 aciI
 thaI
 fnuDII/mvnI
 bstUI
 bsh1236I
 hinPI
 hhaI/cfoI
 hinII/acyI
 hgaI caulI
 ahaII/bsaHI
 ccgTGTATGA GCGCGGGCAA GAGCACTCG GTCGCCGCAT ACACATTCT CAGATGACT TGGTTGAGTA CTCACCAGTC
 CGATACACC CGCCATAATA GGGCACTACT GCGGCCCGTT CTCGTTGAGC CAGCGGGCGTA TGTGATAAGA GTCTTACTGA ACCAACTCAT GAGTGGTCAG
 sau3AI
 mboI/ndeII[dam-]
 dpnI[dam+] psp1406I
 dpnII[dam-] xmnI
 bstYI/xhoII alwI[dam-] asp700
 bsrI dpnII[dam-] alwI[dam-] mboII
 bstYI/xhoII
 hgiAI/aspHI
 bsp1286 tru9I
 bsiHKA1 msel
 bmyI ahaIII/draI
 6401 ACAGAAAAGC ATCTTACGGA TGGCATGACA GTAAGAGAAT TATGCACTGC TGCCATAACC ATGAGTGATA ACACTCGCGC CAACCTTACTT CTGACAACGA
 TCTCTTTTCG TAGAATGCCT ACCGTACTGT CATCTCTTTA ATACGTACAG ACGGTATTGG TACTCACTAT TGTGACGCCG GTTGAATGAA GACTGTTGCT
 sau3AI
 mboI/ndeII[dam-]
 dpnI[dam+] psp1406I
 dpnII[dam-] xmnI
 bstYI/xhoII alwI[dam-] asp700
 bsrI dpnII[dam-] alwI[dam-] mboII
 bstYI/xhoII
 hgiAI/aspHI
 bsp1286 tru9I
 bsiHKA1 msel
 bmyI ahaIII/draI
 6501 TCGGAGGACC GAAGGAGCTA ACCGTTTTT TGCACACAT GGGGGATCAT GTAACCTGCGC TTGATCGTTG GGAACCGGAG CTGAATGAAG CCATACCAAA
 ACCCTCCTGG CTTCCTCGAT TGGCGAAAAA ACGTGTGTGA CCCCCTAGTA CATTGAGCGG AACTAGCAAC CCTTGGCCTC GACTTACTTC GGTATGGTTT
 sau96I
 auaII
 asuI
 mniI
 aluI
 aciI
 nlaIII
 sau3AI maeIII
 mboI/ndeII[dam-]
 dpnI[dam+] psp1406I
 dpnII[dam-] xmnI
 bstYI/xhoII alwI[dam-] asp700
 bsrI dpnII[dam-] alwI[dam-] mboII
 bstYI/xhoII
 hgiAI/aspHI
 bsp1286 tru9I
 bsiHKA1 msel
 bmyI ahaIII/draI
 6601 TCGGAGGACC GAAGGAGCTA ACCGTTTTT TGCACACAT GGGGGATCAT GTAACCTGCGC TTGATCGTTG GGAACCGGAG CTGAATGAAG CCATACCAAA
 ACCCTCCTGG CTTCCTCGAT TGGCGAAAAA ACGTGTGTGA CCCCCTAGTA CATTGAGCGG AACTAGCAAC CCTTGGCCTC GACTTACTTC GGTATGGTTT
 sau3AI
 mboI/ndeII[dam-]
 dpnI[dam+] psp1406I
 dpnII[dam-] xmnI
 bstYI/xhoII alwI[dam-] asp700
 bsrI dpnII[dam-] alwI[dam-] mboII
 bstYI/xhoII
 hgiAI/aspHI
 bsp1286 tru9I
 bsiHKA1 msel
 bmyI ahaIII/draI

FIG. 48U

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JAN 28 2003
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FIG. 48V

FIG. 48V



```

sau3AI
mboII[dam-]
sau3AI mboI/ndeII[dam-] thal
mboI/ndeII[dam-] fnuDII/mvni
dplI[dam+] dplI[dam+] bstUI cac8I
dplII[dam-] dplII[dam-] bsh1236I fnu4HI
bstYI/xhoII alwI[dam-] hinPI bsoFI
alwI[dam-] bstYI/xhoII hhAI/cfoI bbvI
7101 TCAAAGGATC TTCTTGAGAT CCTTTTTC TGCGGGTAAT CTGCTGCTTG CAAACAAAAA AACCAACGCT ACCAGCGGTG GTTGTGTTGC CGGATCAAGA
AGTTTCCTAG AAGAAGCTCTA GGAACAAAAAG ACGGCATTA GACGACGAAC GTTGTGTTT TTGTGCGCA TGGTCGCGAC CAAACAAACG GCCTAGTTCT
sau3AI
mboI/ndeII[dam-]
dplI[dam+]
dplII[dam-]
alwI[dam-]
mspI
hpaII
alul
7201 GCTACCAACT CTTTTCCGA AGGTAAGCTG CTTCAGCAGA GCGCAGATAC CAAATACTGT CCTTCTAGTG TAGCCGTAGT TAGCCACCA CTTCAGAAAC
CGATGGTTGA GAAAAGGCT TCGATTGACC GAAGTGTCT CCGCTCTATG GTTATGACA GGAAGATCAC ATCGGCATCA ATCGGTGCT GAAGTTCTTG
hsrI
maeIII
eco57I
hhAI/cfoI
hinPI
rmaI
maeI
bfaI
bsII
haeIII/palI
haeI
7301 TCTGTAGCAC CGCTACATA CTCGCTCTG CTATCCTGT TACCAGTGC TGCTGCCAGT GCGGATAAGT CGTGTCTTAC CGGTTGGAC TCAAGACGAT
AGACATCGTG GCGGATGAT GGAGCGAGAC GATTAGACA ATGGTCACCG ACGAGCGTCA CCGCTATTCA GCACAGAATG GCCCAACCTG AGTTCTGCTA
scfI acII mnlI maeIII bbvI bsrI
alwNI[dcM-]
bsrI bsoFI
fnu4HI
bbvI
fnu4HI
bsrI
alwNI[dcM-]
bsrI bsoFI
bbvI
7401 AGTTACCGGA TAAGCGGAG CGGTGCGGCT GAACGGGGG TTCTGGACA CAGCCCCAGT TGGAGCGAAC GACCTACACC GAAGTACAGT ACCTACAGCG
TCAATGGCCT ATTCCGCGTC GCCAGCCCCA CTTGCCCCCC AAGCAGCTGT GTCCGGTCA ACCTCGCTTG CTGGATCTTA TGGATCTCGC
acII
nspBII
fnu4HI
bspI
bsoFI
bbvI mcrI
bsawI hinPI bsiEI
maeIII hhAI/cfoI
alw4I/snoI alul
dclI scfI
hgIAI/asphi
bspI286
bsiHKA
bmyI
apALI/snoI
alw4I/snoI

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FIG. 48W

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7501 TGAGCATTTGA GAAAGCGCCA CGCTTCCCGA AGGAGAAAAG GCGGACAGGT ATCCGGTAAAG CGGCAGGGTC GGAACAGCAG AGCGCACGAG GGAGCTTCCA
ACTCGTAACT CTTTCGGCGT GCGAAGGGCT TCCCTCTTTC CGCCTGTCCA TAGGCCATTC GCGGTCCCAG CCTTGCTCTC TCGCGTGCTC CCTCGAAGGT

             hinPI          fnu4HI          bssSI          nlaIV
             hhaI/cfoI          bssSI          acII
             haeII          bssSI          acII          acII
             scrFI          mvaI          ecorII          dsav          bstNI          bsaJI          aluI apyI(dcm+)
             scrFI          mvaI          ecorII          dsav          bstNI          bsaJI          aluI apyI(dcm+)

7601 GGGGGAACG CCTGGTATCT TTATAGTCCT GTCGGGTTTC GCCACCTCTG ACTGAGCGT CGATTTTGTG GATGCTCGTC AGGGGGCGG AGCCTATGGA
CCCCCTTTCG GGACCATAGA AATATCAGGA CAGCCCAAAG CCGTGGAGAC TGAACCTGCA GCTAAACA CTACGAGCAG TCCCCCGCC TCGGATACCT

             scrFI          mvaI          ecorII          dsav          bstNI          taqI          nlaIV
             scrFI          mvaI          ecorII          dsav          bstNI          taqI          nlaIV
             haeIII/palI          haeIII/palI          haeIII/palI          haeIII/palI          haeIII/palI          haeIII/palI
             fnu4HI          bsoFI          bshI236I          nlaIV          haeI          cac8I          aflIII          nspHI          tfil          hinfi
             thal bslI          fnuDII/mvni          bstUI          bshI236I          nlaIV          haeI          cac8I          aflIII          nspHI          tfil          hinfi
             cac8I          bshI236I          nlaIV          haeI          cac8I          aflIII          nspHI          tfil          hinfi

7701 AAAAGCCCGC CAACGGCGCC TTTTACGGT TCCTGGCCTT TTGCTGGCCT TTTGCTCACA TGTTCTTTCC TCGGTTATCC CCTGATTCTG TGGATAACCG
TTTTGGGTC GTTGGCGCGG AAAAATGCCA AGGACCGGAA AACGACCGGA AACGAGTGT ACAGAAAAGG ACGCAATAGG GGAATAAGAC ACCTATTGGC

             fnu4HI          bsoFI          bbvI          mcrI          bslEI          hhaI/cfoI          mnlI          acII          haeII
             fnu4HI          bsoFI          bbvI          mcrI          bslEI          hhaI/cfoI          mnlI          acII          haeII
             cac8I          acII          bsrBI          fnu4HI          mcrI          bslEI          hhaI/cfoI          mnlI          acII          haeII
             aluI          acII          bsrBI          fnu4HI          mcrI          bslEI          hhaI/cfoI          mnlI          acII          haeII

7801 TATTACCGCC TTTGAGTGAG CTGATACCGC TCGCCGCGAG CGAACGACCG GTCACTGAGC GAGGAAGCGG AAGAGCGGCC AATACGCAAA
ATAATGCGCG AACTCACTC GACTATGGC AGCGGCGTGC GTTGCTGGC TCGGCTGGCT CAGTCACTCG CTCCTTCGCC TTCTCGCGG TTATGCGTTT

```

FIG. 48X

FIG. 48Y

JAN 24 2003

```
tru9I
mseI
aseI/asnI/vspI
xmnl
nlaIII asp700
8101 TGACCATGAT TACGAATTAA (SEQ ID NO.68)
ACTGGTACTA ATGCTTAATT

>length: 8120

aatII(GACGTC): 1690 5947
acc65I(GGTACC): 2969 3967 4529
accI(GTMRAC): 823 1039 2738 4237
acII(CCGC): 217 229 238 250 260 271 317 422 454 485 574 1385 1795 1871 2248 2250 2758 2982
3167 3179 3188 3200 3210 3221 3267 3372 3404 3449 3686 3949 4021 4318 4542 4727
4739 4748 4760 4770 4781 4827 4910 4914 5070 5127 5153 5166 5203 5217 5220 5248
5275 5680 5699 5741 5751 5790 5979 6026 6125 6234 6311 6355 6476 6522 6713 6804
7166 7175 7310 7420 7541 7560 7687 7715 7806 7827 7834 7877 7901 7911 7967 8070

see hinII
acyI
afIII/bfII(CTTAAG): 786
afIII(ACRYGT): 932 7758
ageI(ACCGGT): 1833
ahaII/baahI(GRCGYC): 988 1690 1858 5117 5947 6329
ahaII/draI(TTTAAA): 696 4935 6290 6982 7001
ahdI/eamII05I(GACNNNNNGTC): 2087 6865
alul(AGCT): 5 44 332 386 390 753 1097 1165 1370 1431 1951 2603 2751 2784 3282 3336 3340
3562 3566 3676 3733 3792 4270 4288 4311 4344 4554 4842 4896 4954 5047 5333 5590
5803 5822 6516 6579 6679 7200 7457 7593 7819 7937 8096
alw44I/snoI(GTGCAC): 1876 5651 6198 7444
```

FIG. 48Z



APPROVED	O.G. FIG.	
	CLASS	SUBCLASS
BY	DRAFTSMAN	

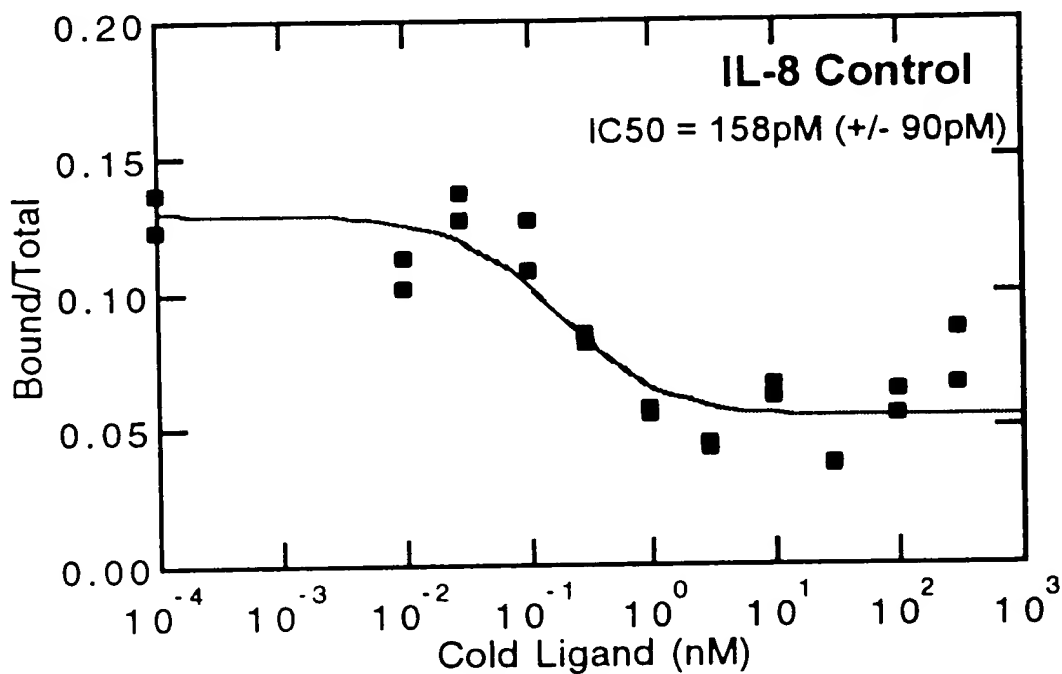


FIG. 49A

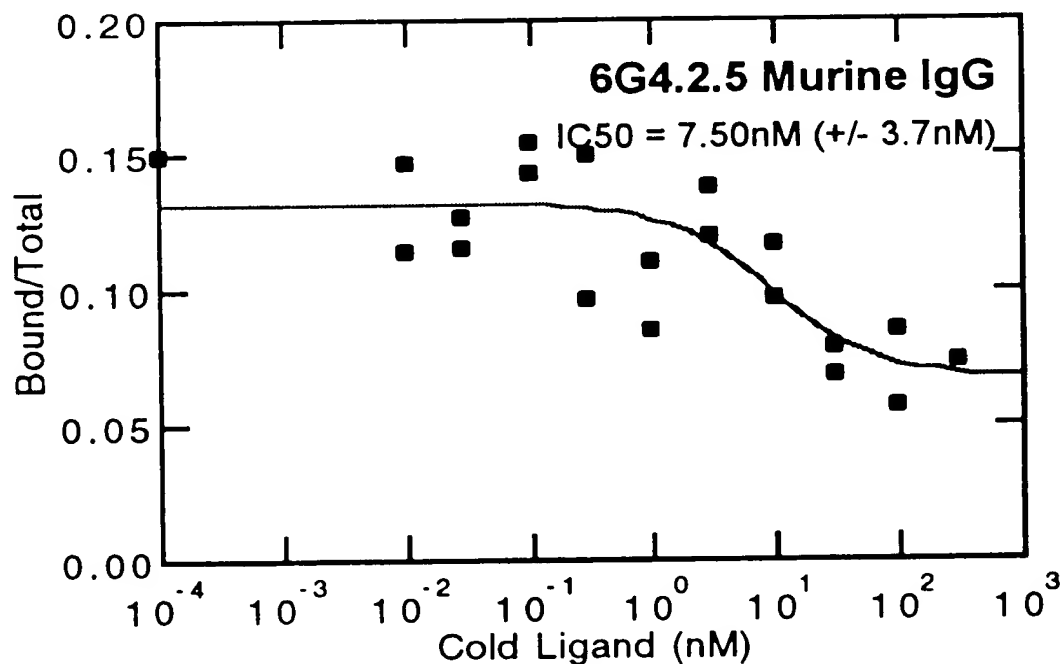


FIG. 49B

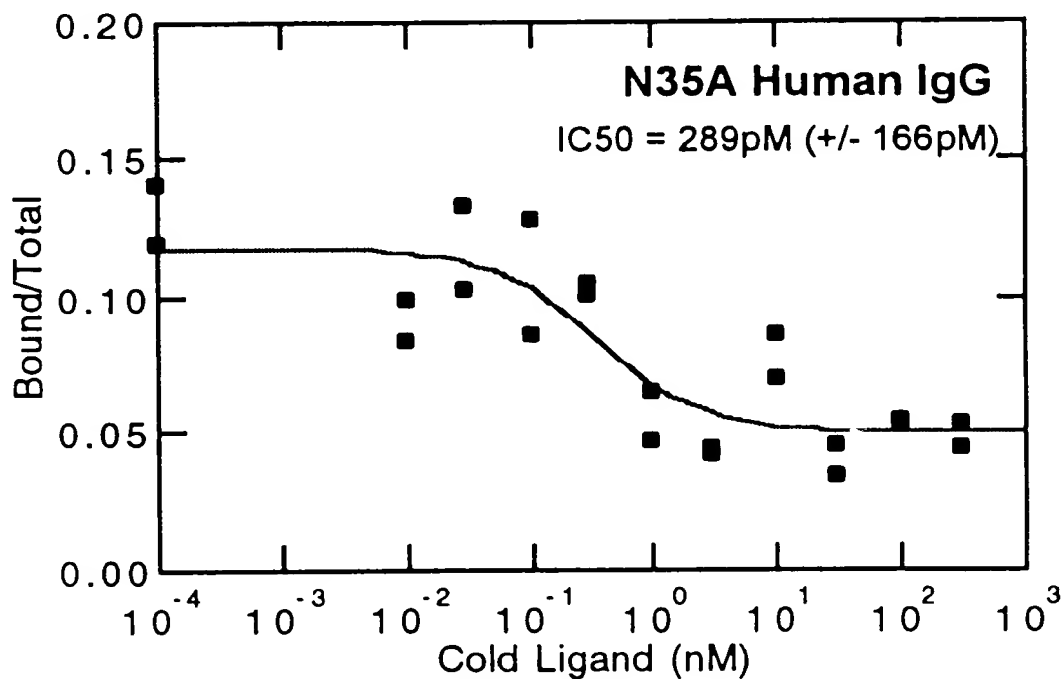


FIG. 49C

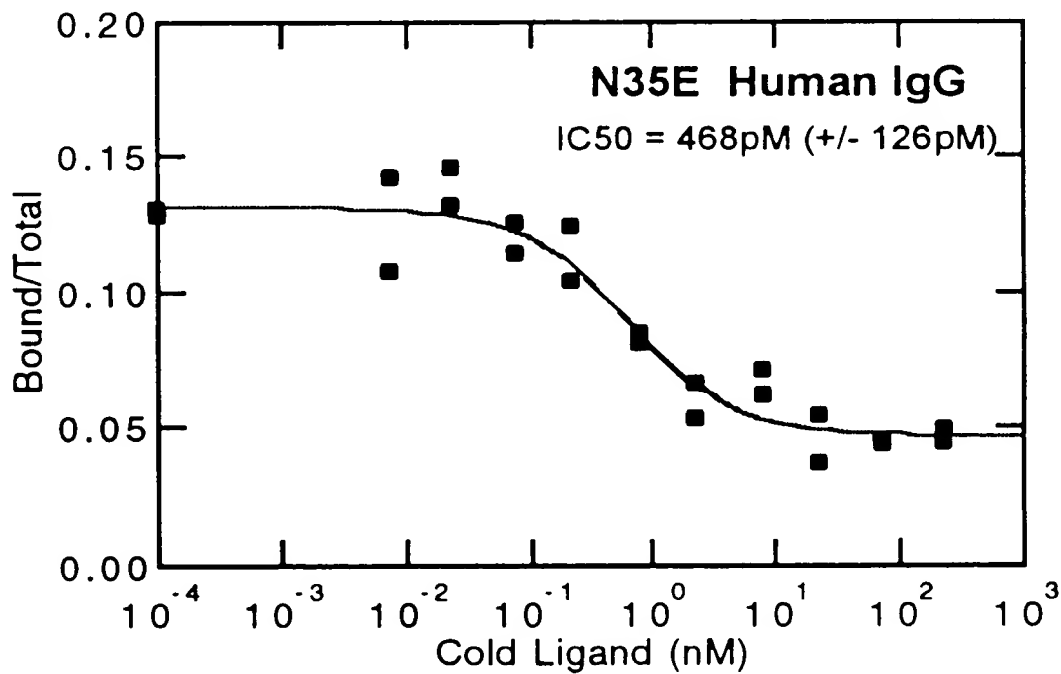


FIG. 49D

OTA
JAN 22 2003

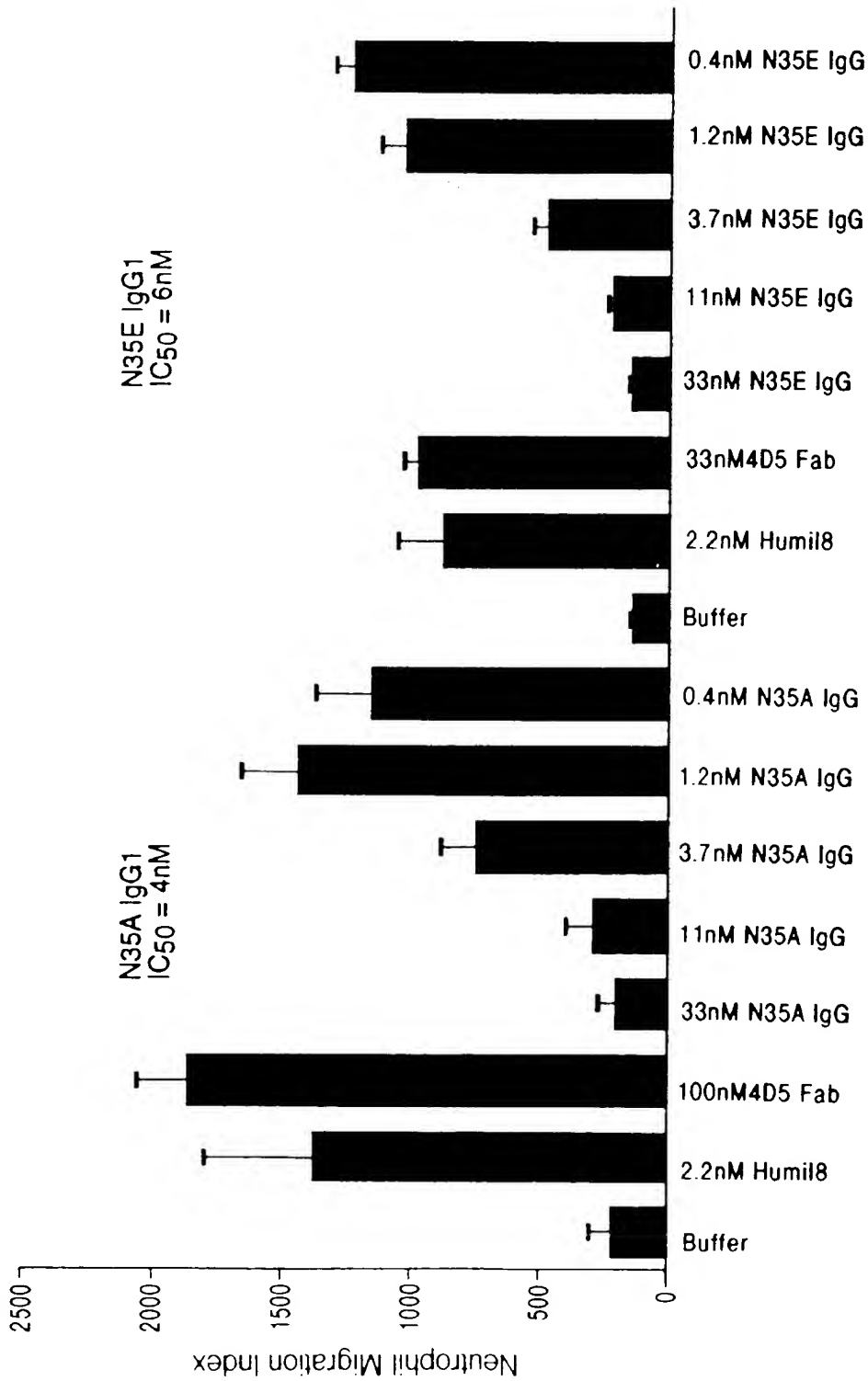


FIG. 50A

JAN 22 2003

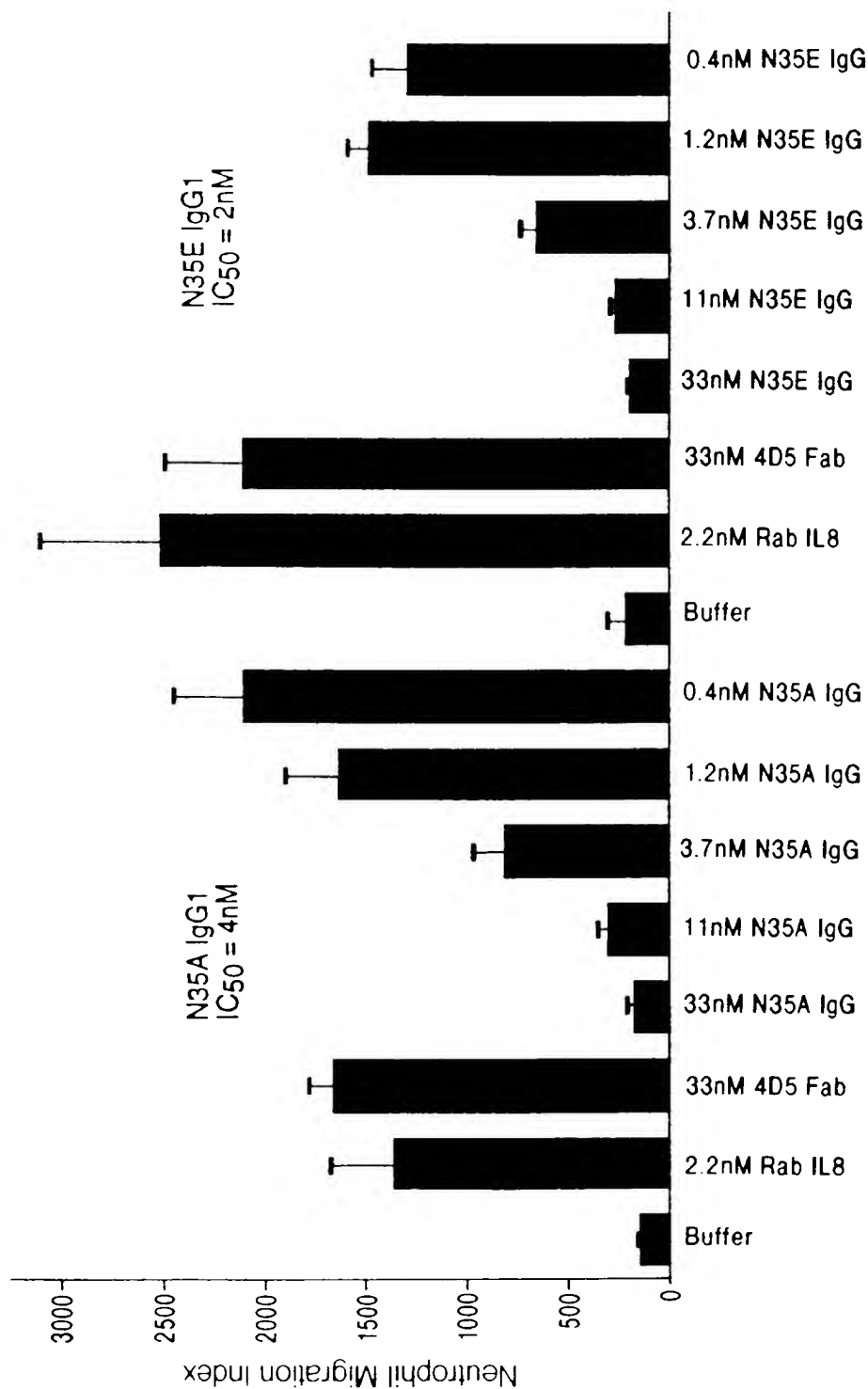
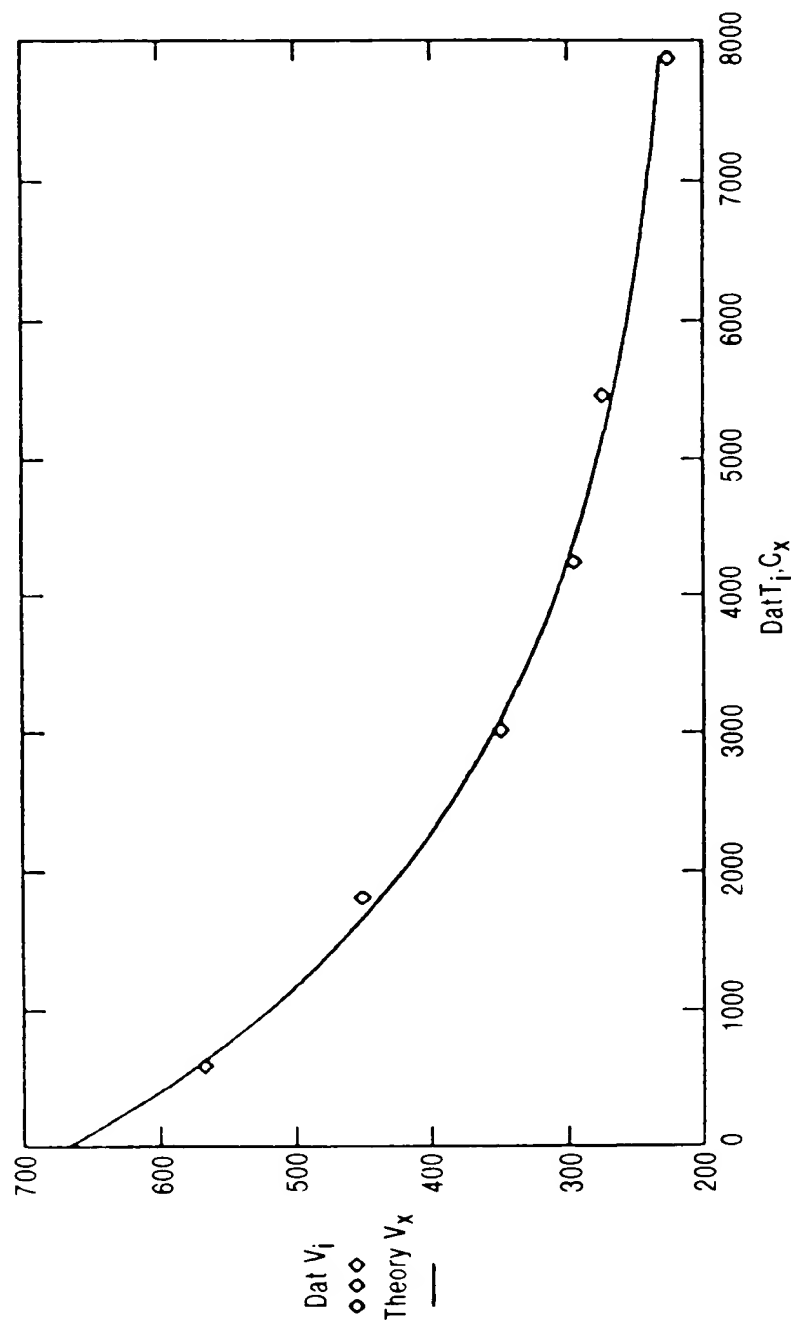


FIG. 50B

CIP
 JAN 7 2003



Representative Conc versus Time Plot. Shown is the kinetic data for 6G4V11N35A.IgG1

SAMPLE	k_a	k_d	Kd
Murine 6G4.2.5 IgG2a	8.3×10^5	2.9×10^{-4}	350pM
6G4V11N35A-IgG1	8.7×10^5	7.7×10^{-5}	88pM
6G4V11N35E-IgG1	3.0×10^6	1.4×10^{-4}	49pM

FIG. 51

JAN 22 2003

Title: Antibody Fragment-Polymer Conjugates and Humanized Anti-IL-8

Monoclonal Antibodies; Inventor: Vanessa H. et al.

Application No.: 09/234,182 (Attorney Docket No. 09234.093A)

111/141

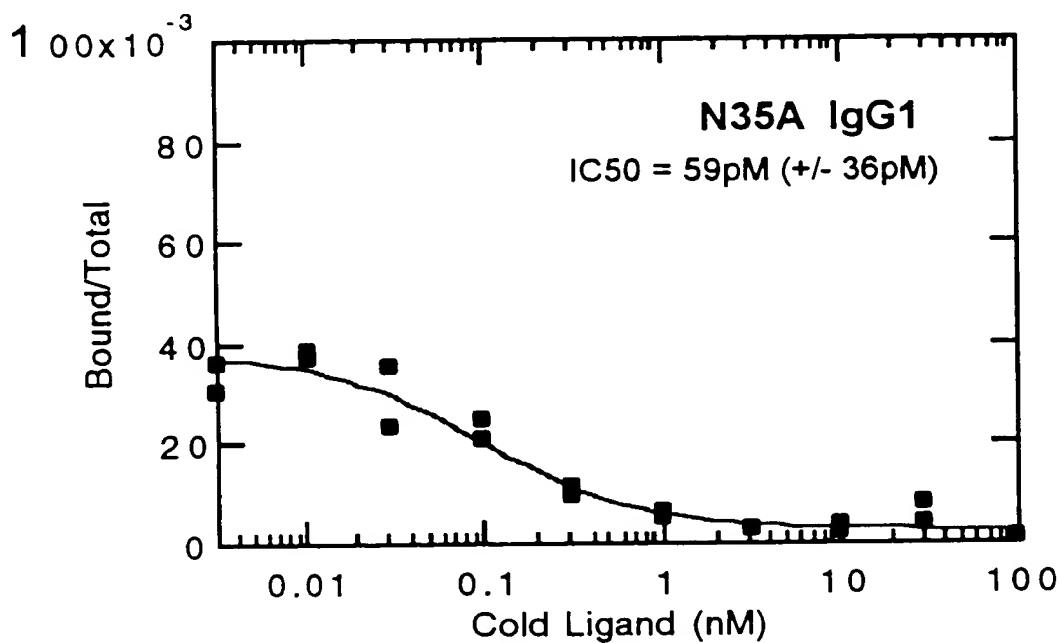


FIG. 52A

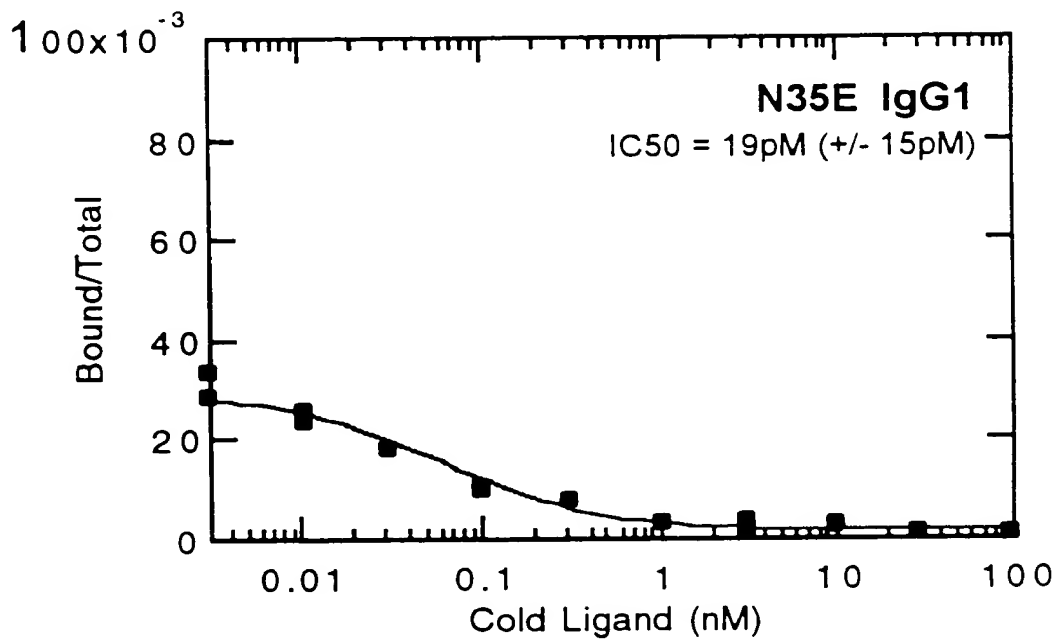


FIG. 52B

781 AAAAGGGTAT CTAGAGGTTG AGGTGATTTT ATGAAAAAGA ATATCGCATT TCTTCTTGCA
 TTTTCCCATA GATCTCCAAC TCCACTAAAA TACTTTTCTT TATAGCGTAA AGAAGAACGT
 -1 M K K N I A F L L A
 841 TCTATGTTTCG TTTTCTCTAT TGCTACAAAC GCGTACGCTG AGGTTTCAGCT AGTGCAGTCT
 AGATACAAGC AAAAAAGATA ACGATGTTTG CGCATGCGAC TCCAAGTCGA TCACGTCAGA
 -11 S M F V F S I A T N A Y A E V Q L V Q S
 901 GGCGGTGGCC TGGTGCAGCC AGGGGGCTCA CTCCGTTTGT CCTGTGCAGC TTCTGGCTAC
 CCGCCACCGG ACCACGTCGG TCCCCCGAGT GAGGCAAAAC GGACACGTCG AAGACCGATG
 8 G G G L V Q P G G S L R L S C A A S G Y
 961 TCCTTCTCGA GTCACTATAT GCACTGGGTC CGTCAGGCCC CGGGTAAGGG CCTGGAATGG
 AGGAAGAGCT CAGTGATATA CGTGACCCAG GCAGTCCGGG GCCCATTTCC GGACCTTACC
 28 S F S S H Y M H W V R Q A P G K G L E W
 1021 GTTGGATATA TTGATCCTTC CAATGGTGAA ACTACGTATA ATCAAAAGTT CAAGGGCCGT
 CAACCTATAT AACTAGGAAG GTTACCACCT TGATGCATAT TAGTTTTCAA GTTCCCGGCA
 48 V G Y I D P S N G E T T Y N Q K F K G R
 1081 TTCACTTTAT CTCGCGACAA CTCCAAAAAC ACAGCATACC TGCAGATGAA CAGCCTGCGT
 AAGTGAAATA GAGCGCTGTT GAGGTTTPTG TGTCGTATGG ACGTCTACTT GTCGGACGCA
 68 F T L S R D N S K N T A Y L Q M N S L R
 1141 GCTGAGGACA CTGCCGTCTA TTA CTGTGCA AGAGGGGATT ATCGCTACAA TGGTGA CTGG
 CGACTCCTGT GACGGCAGAT AATGACACGT TCTCCCCCTAA TAGCGATGTT ACCACTGACC
 88 A E D T A V Y Y C A R G D Y R Y N G D W
 1201 TTCTTCGACG TCTGGGGTCA AGGAACCCTG GTCACCGTCT CCTCGGCCTC CACCAAGGGC
 AAGAAGCTGC AGACCCCACT TCCTTGGGAC CAGTGCCAGA GGAGCCGGAG GTGGTTCCCG
 108 F F D V W G Q G T L V T V S S A S T K G
 1261 CCATCGGTCT TCCCCCTGGC ACCCTCCTCC AAGAGCACCT CTGGGGGCAC AGCGGCCCTG
 GGTAGCCAGA AGGGGGACCG TGGGAGGAGG TTCTCGTGGA GACCCCGTG TCGCCGGGAC
 128 P S V F P L A P S S K S T S G G T A A L
 1321 GGCTGCCTGG TCAAGGACTA CTTCCCCGAA CCGGTGACGG TGTCGTGGAA CTCAGGCGCC
 CCGACGGACC AGTTCTTGAT GAAGGGGCTT GGCCACTGCC ACAGCACCTT GAGTCCCGCG
 148 G C L V K D Y F P E P V T V S W N S G A
 1381 CTGACCAGCG GCGTGACAC CTTCCCGGCT GTCCTACAGT CCTCAGGACT CTACTCCCTC
 GACTGGTTCG CGCACGTGTG GAAGGGCCGA CAGGATGTCA GGAGTCCTGA GATGAGGGAG
 168 L T S G V H T F P A V L Q S S G L Y S L
 1441 AGCAGCGTGG TGACCGTGCC CTCCAGCAGC TTGGGCACCC AGACCTACAT CTGCAACGTG
 TCGTCGCACC ACTGGCACGG GAGGTCGTG AACCCGTGGG TCTGGATGTA GACGTTGCAC
 188 S S V V T V P S S S L G T Q T Y I C N V
 1501 AATCACAAGC CCAGCAACAC CAAGGTCGAC AAGAAAGTTG AGCCCAAATC TTGTGACAAA
 TTAGTGTTTCG GGTGTTGTG GTTCCAGCTG TTCTTTCAAC TCGGGTTTAG AACACTGTTT
 208 N H K P S N T K V D K K V E P K S C D K
 1561 ACTCACACAT GCGCGCCGTGA (SEQ ID NO.69)
 TGAGTGTGTA CGGGCGGCACT
 228 T H T C P P O (SEQ ID NO.70)

FIG. 53

JAN 7 2003

BY	CLASS	SUBCLASS
DRAFTSMAN		

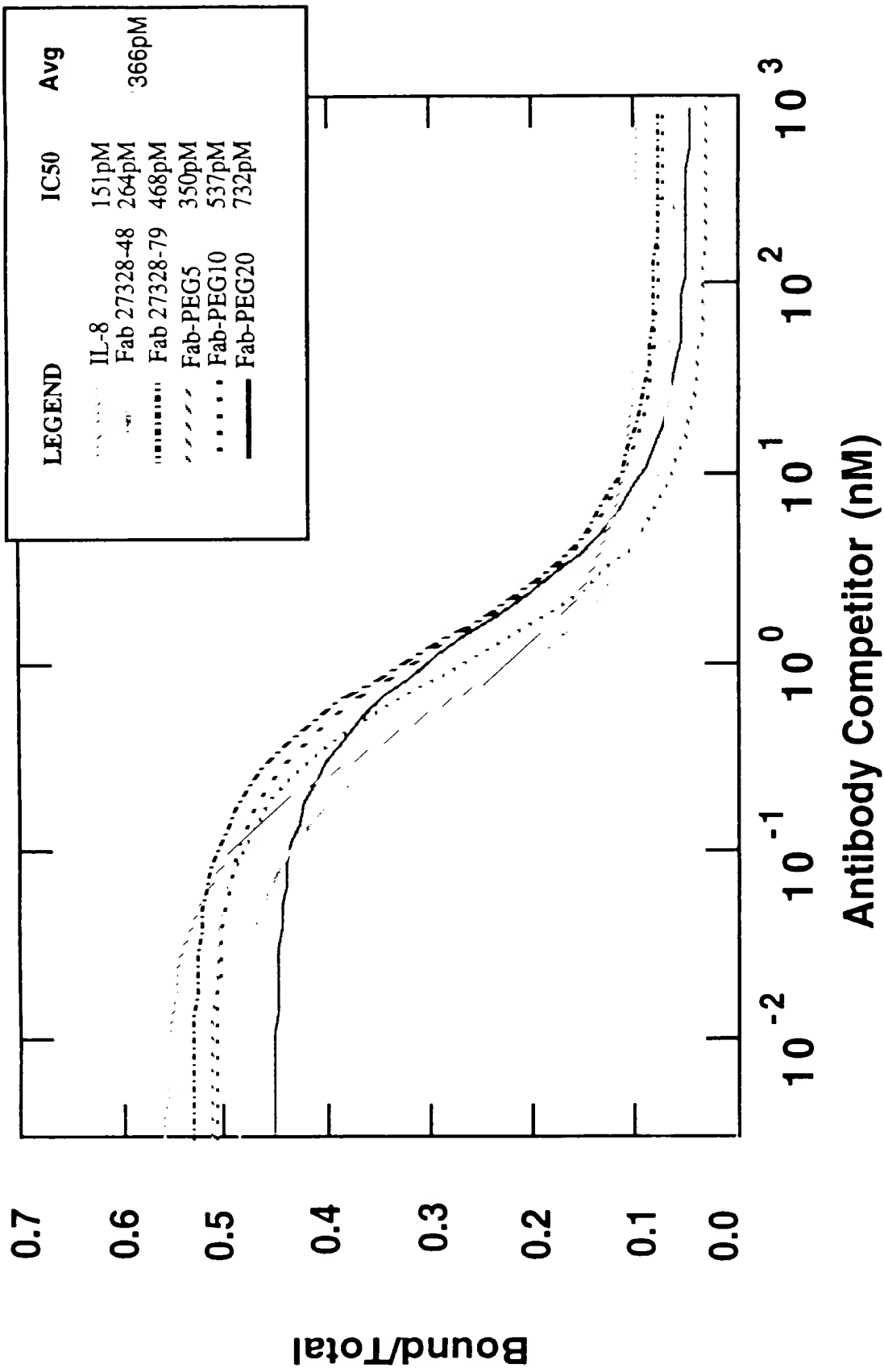


FIG. 54A

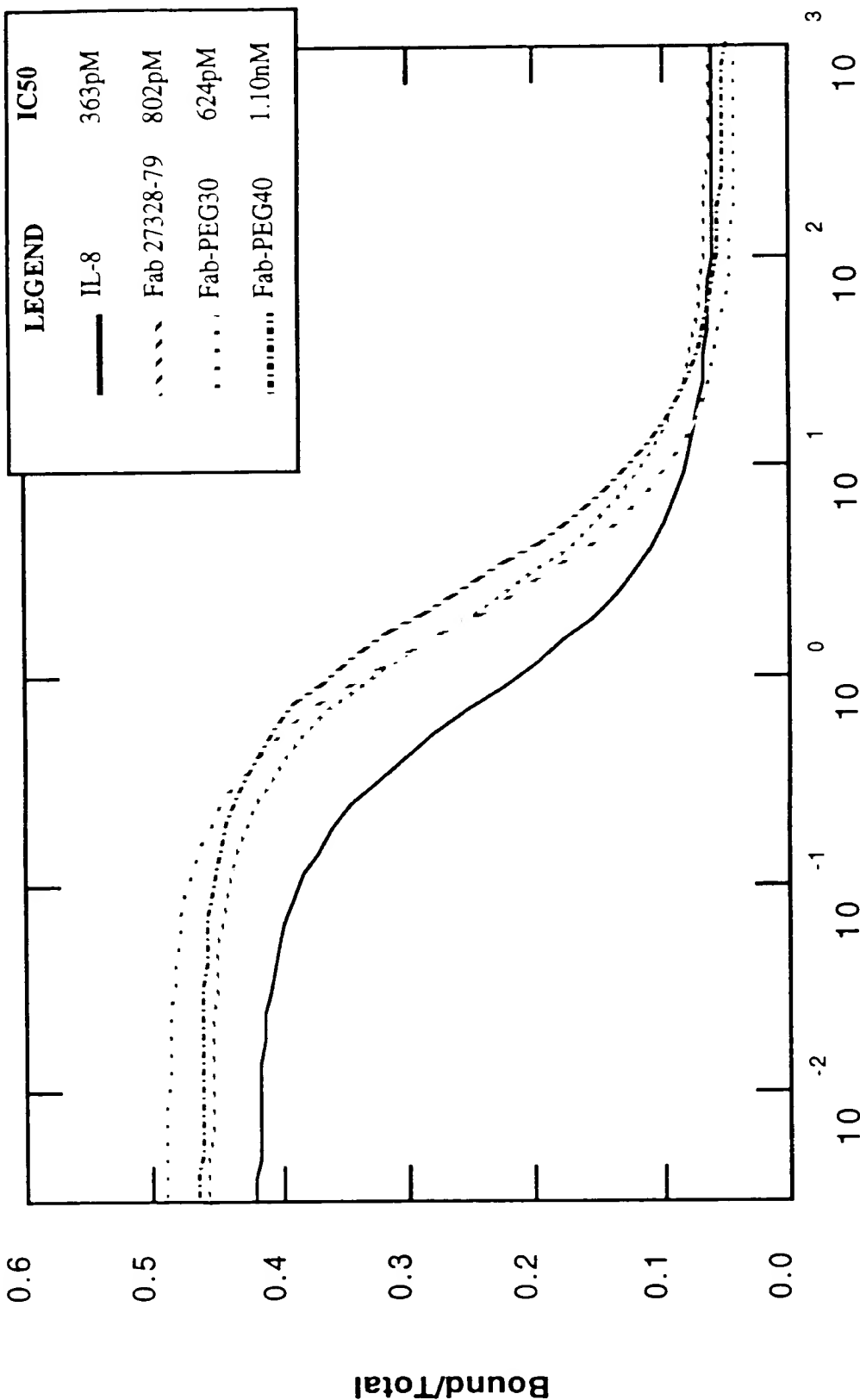
JAN 7 2 2003

Title: Antibody Fragment-Polymer Conjugates and Humanized Anti-IL-8

Monoclonal Antibodies: Inventor: Vanessa H. et al.

Application No.: 09/234,182 (Attorney Docket No. C-92193A)

114/141



JAN 7 2 2003

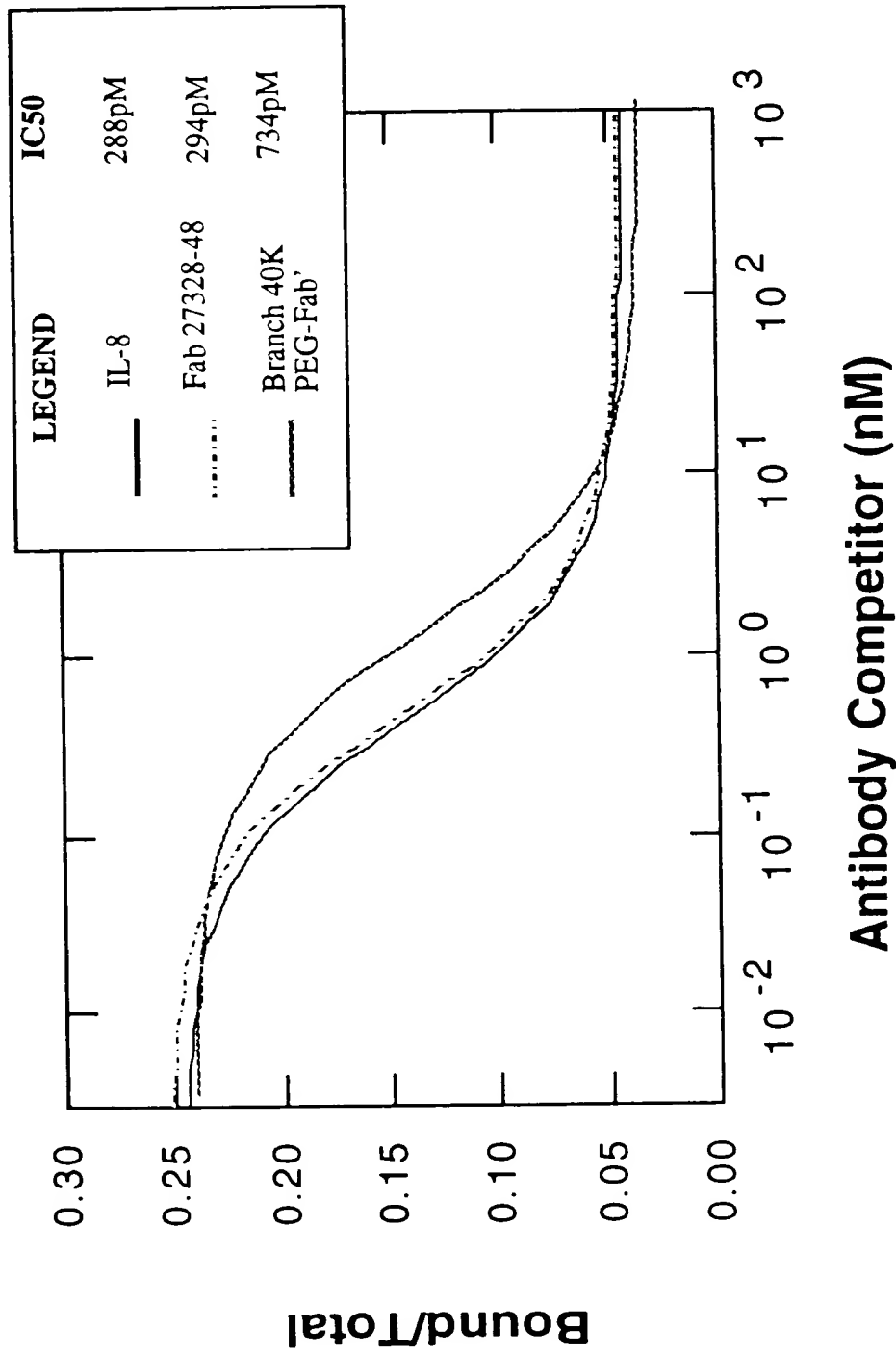


FIG. 54C

JAN 22 2003

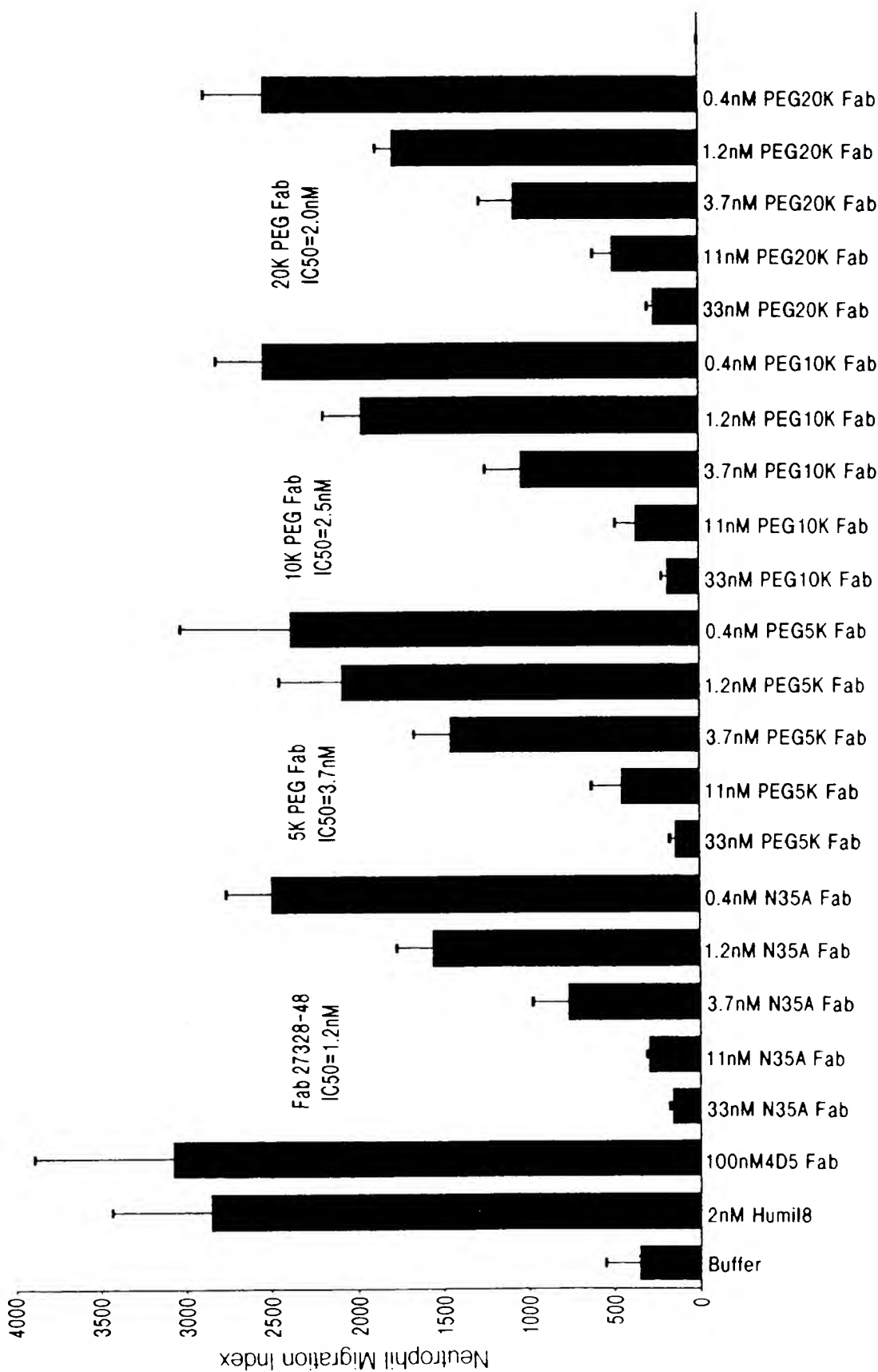


FIG. 55A

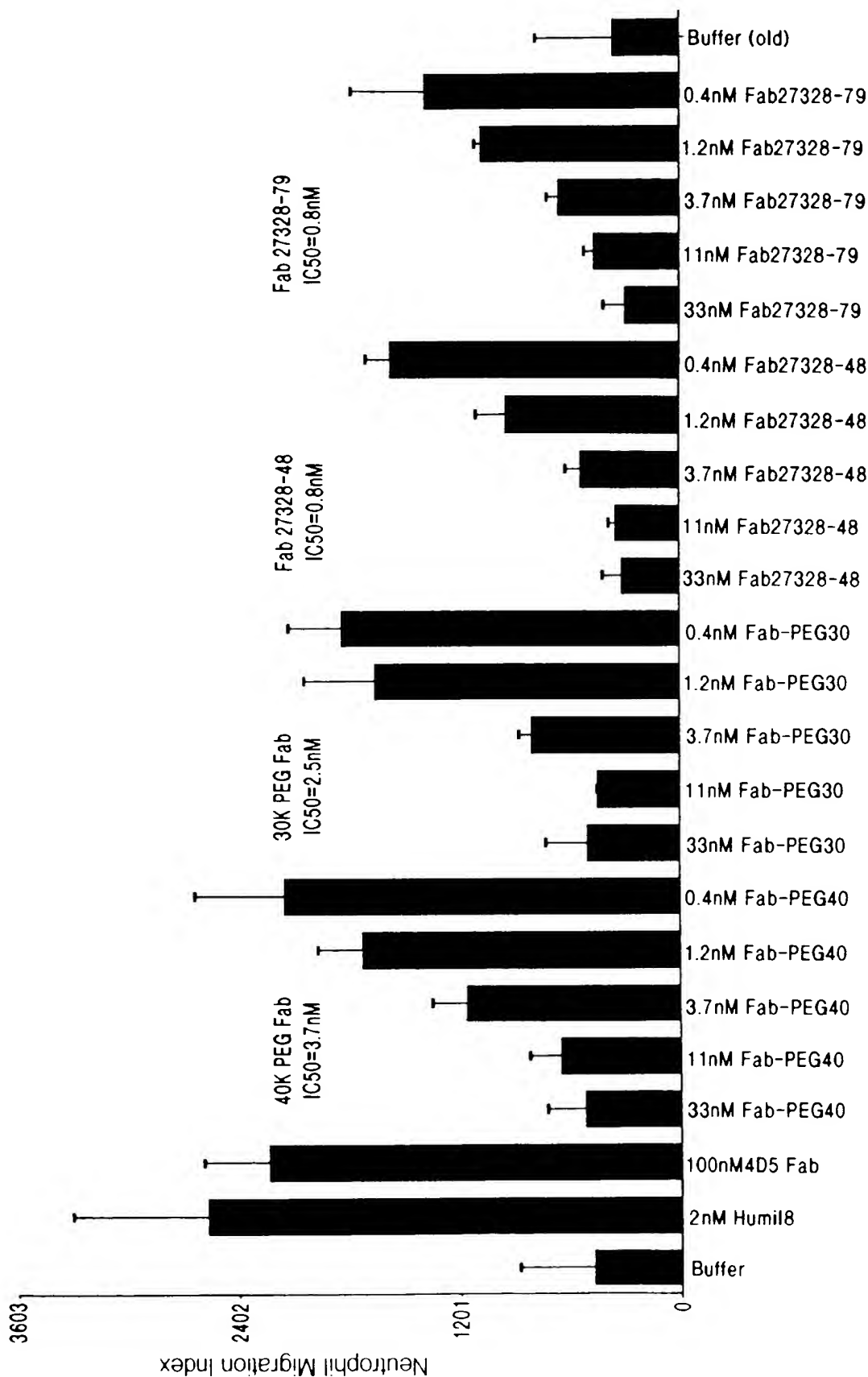
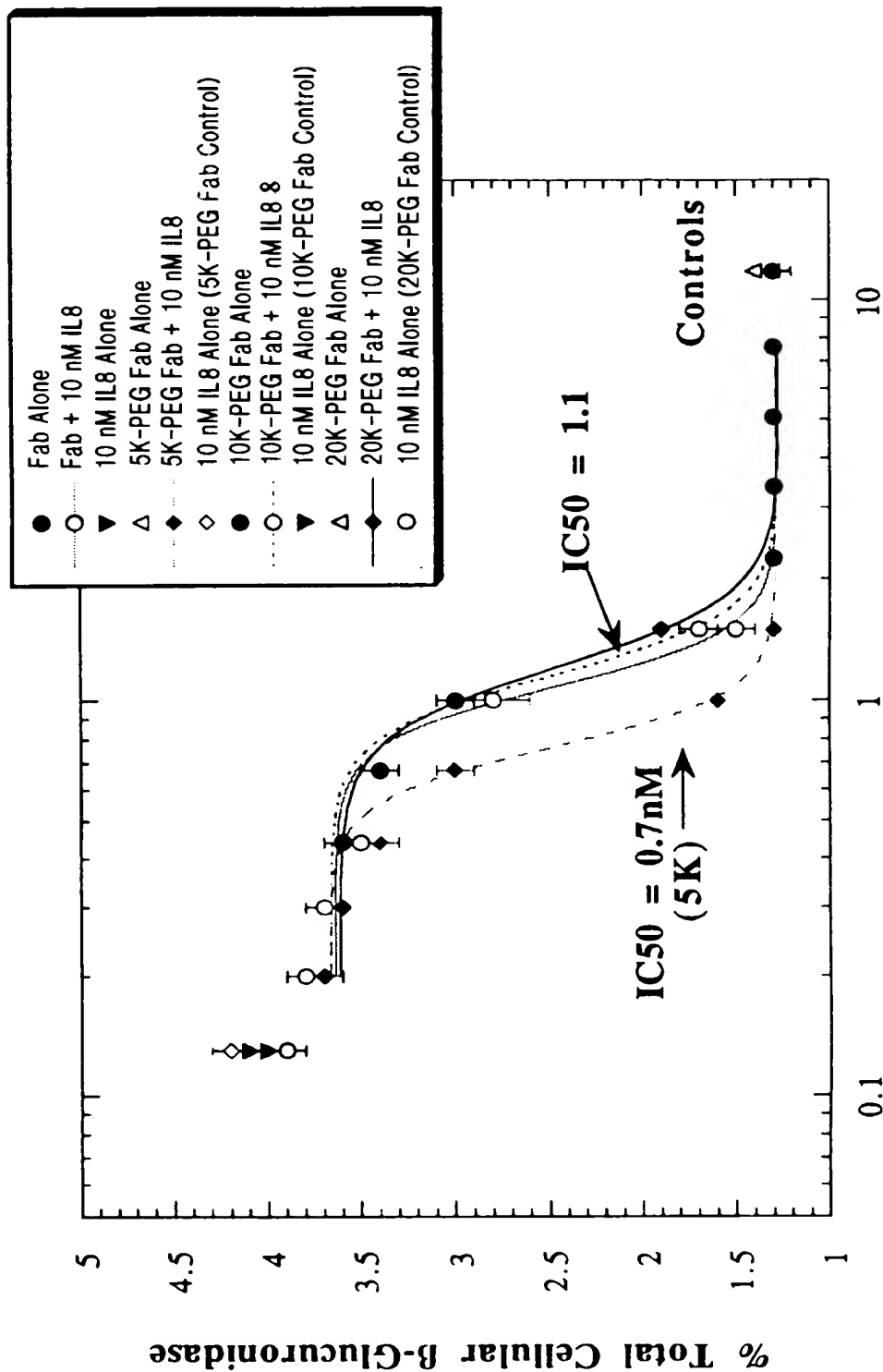


FIG. 55B



Molar Ratio Antibody:IL-8

FIG. 56A



APPROVED	000000
BY	CLASS
DRAFTSMAN	SUBJECT

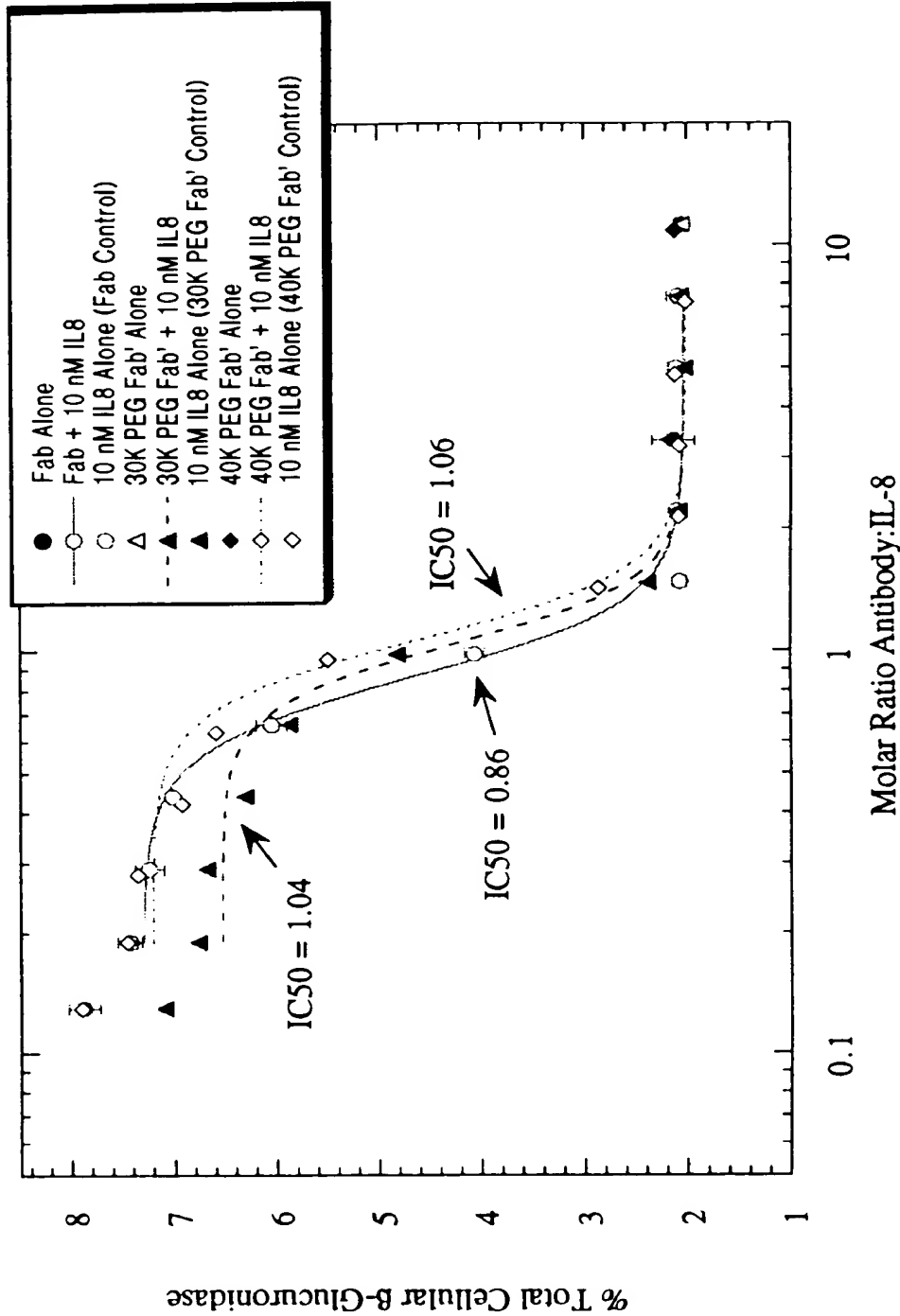
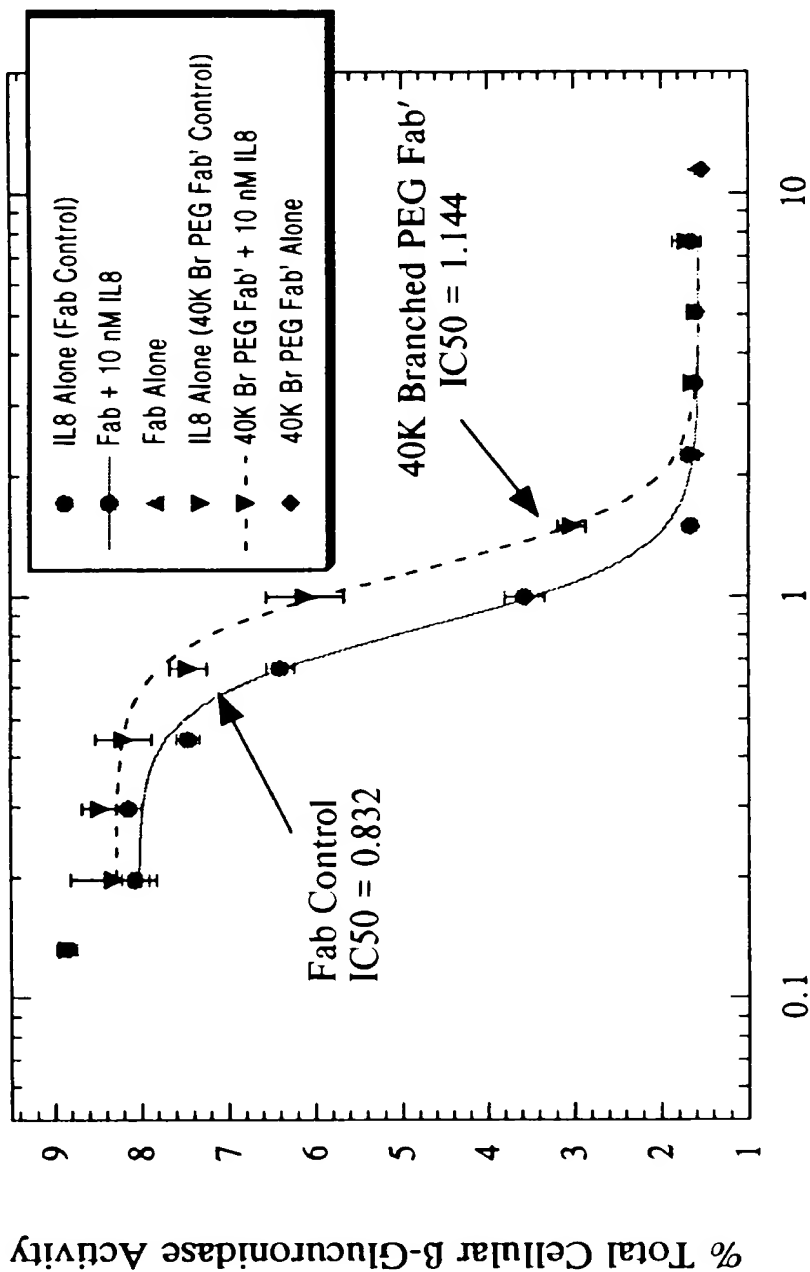
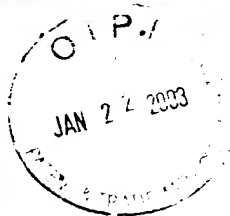
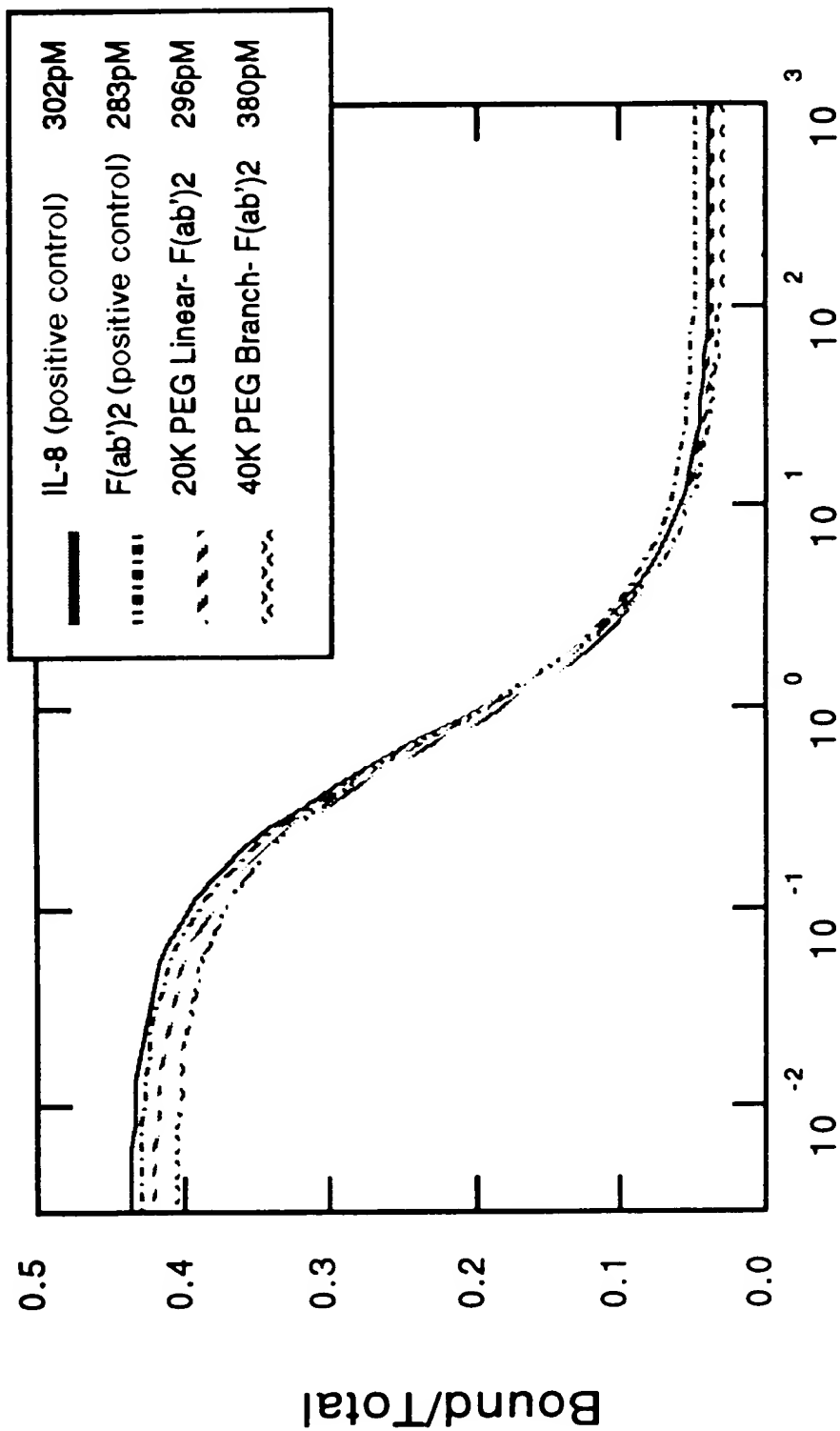


FIG. 56B



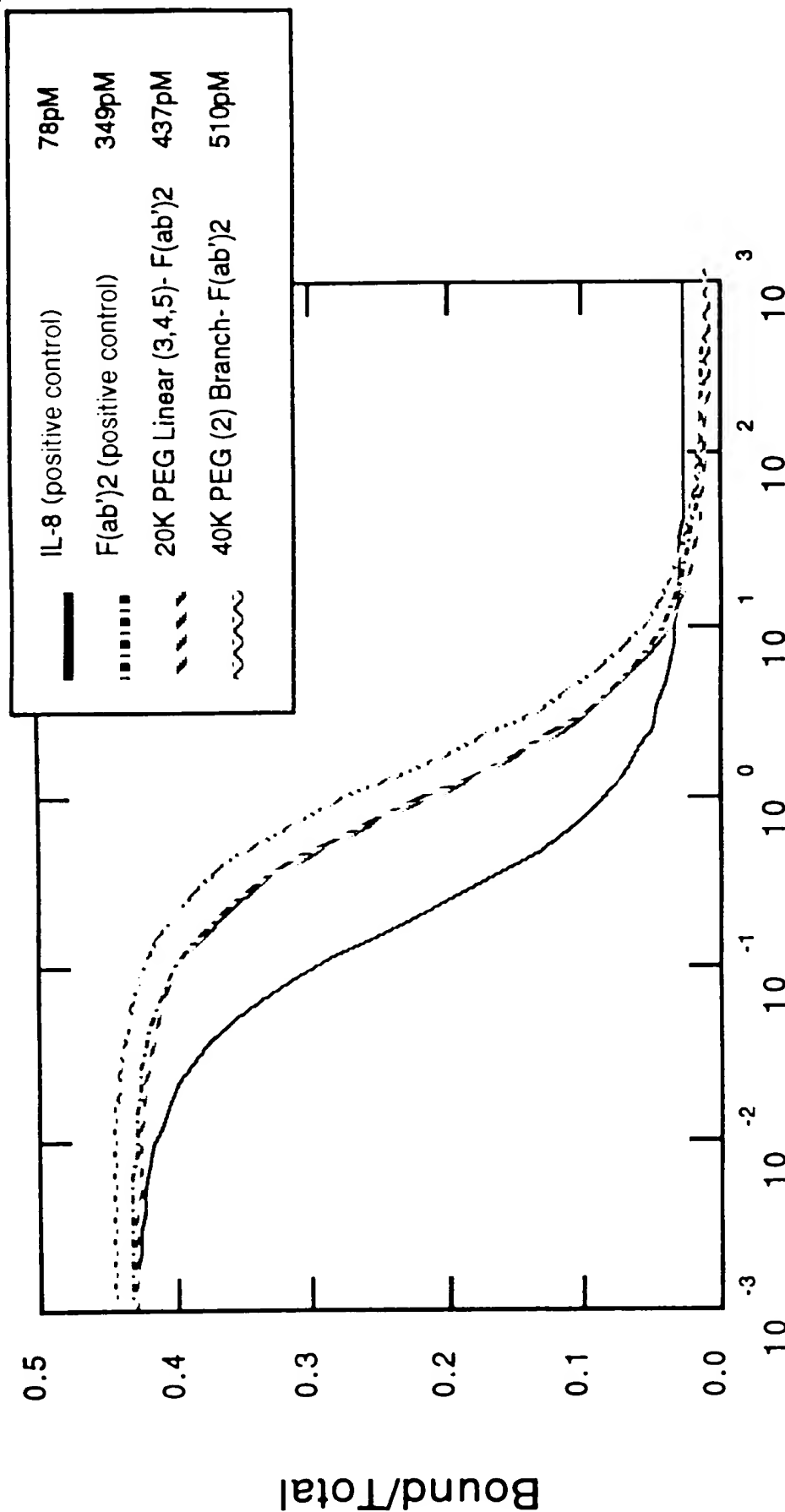
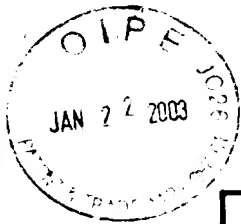
Molar Ratio Antibody:IL8

FIG. 56C



Pegylated F(ab')₂ (nM)

FIG. 57A



Pegylated F(ab')₂ (nM)

FIG. 57B

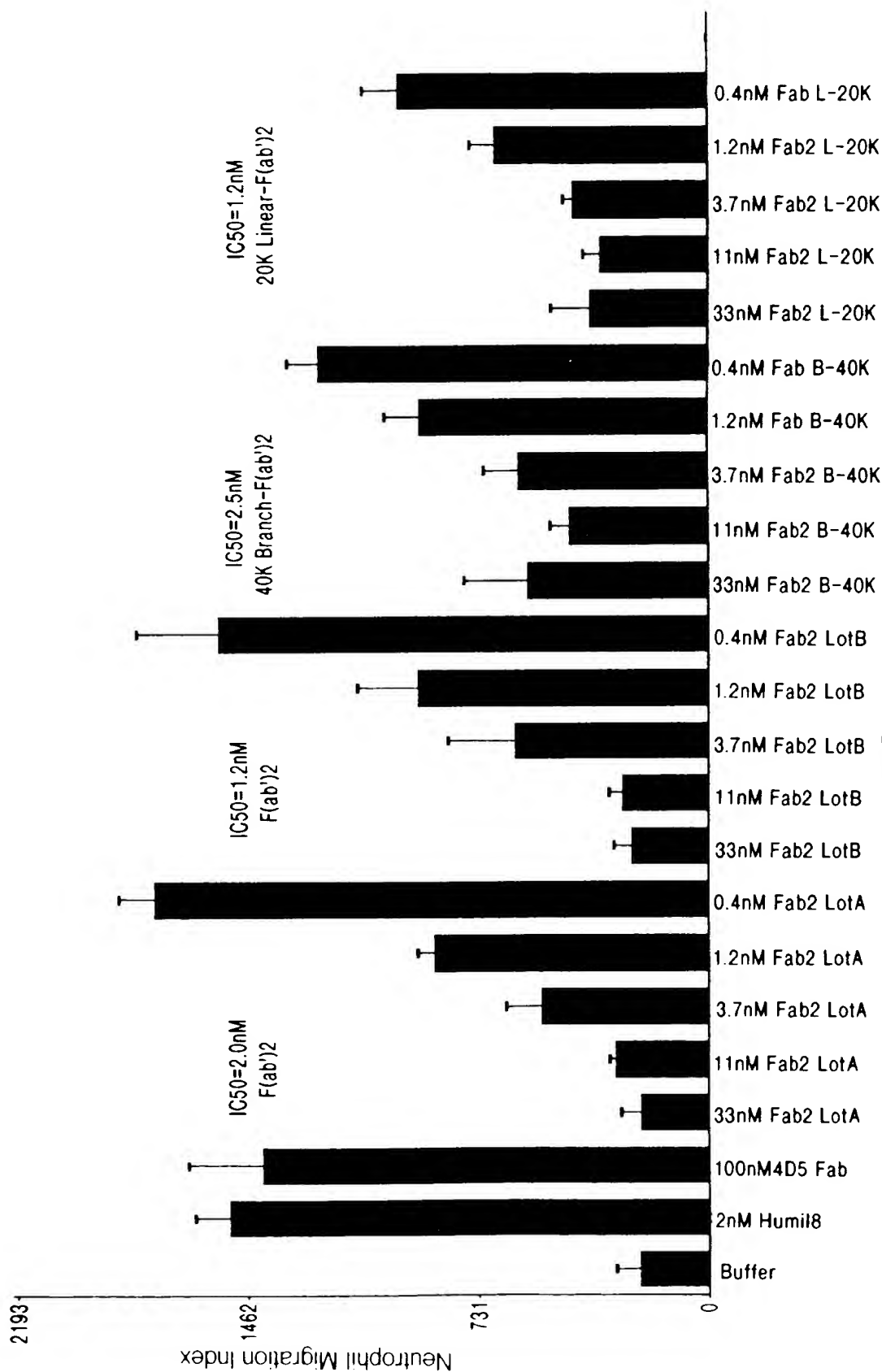


FIG. 58A

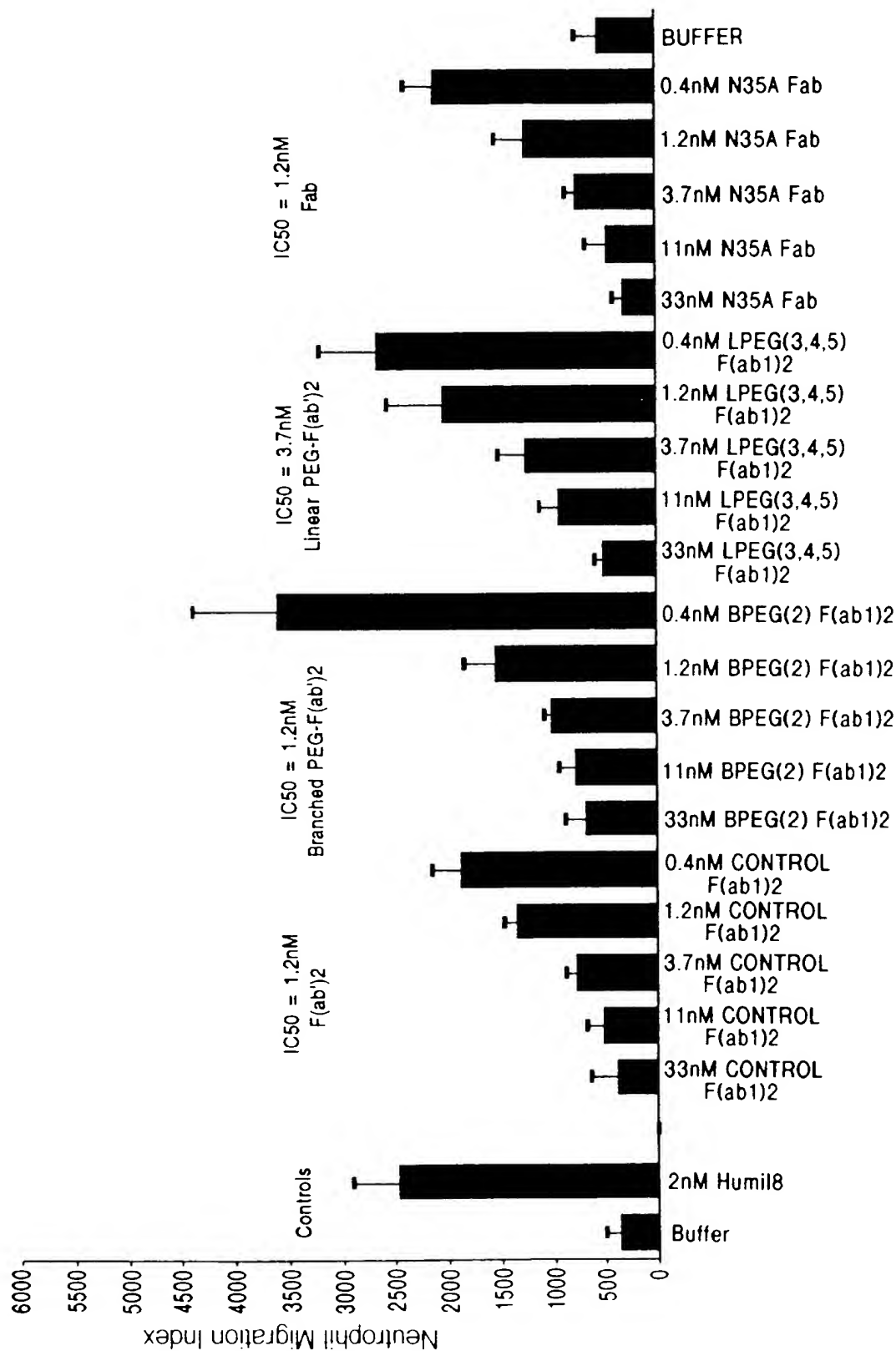


FIG. 58B

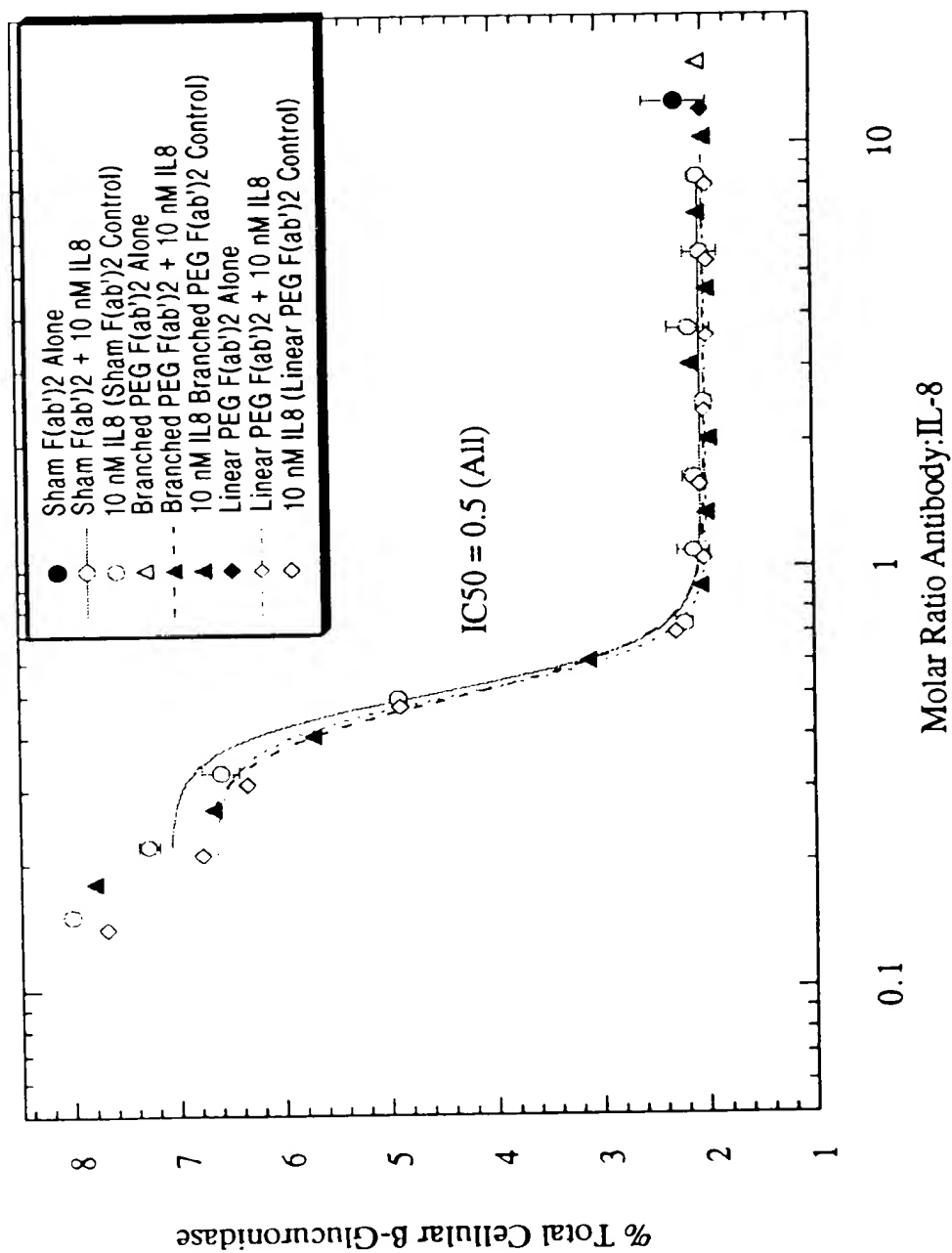
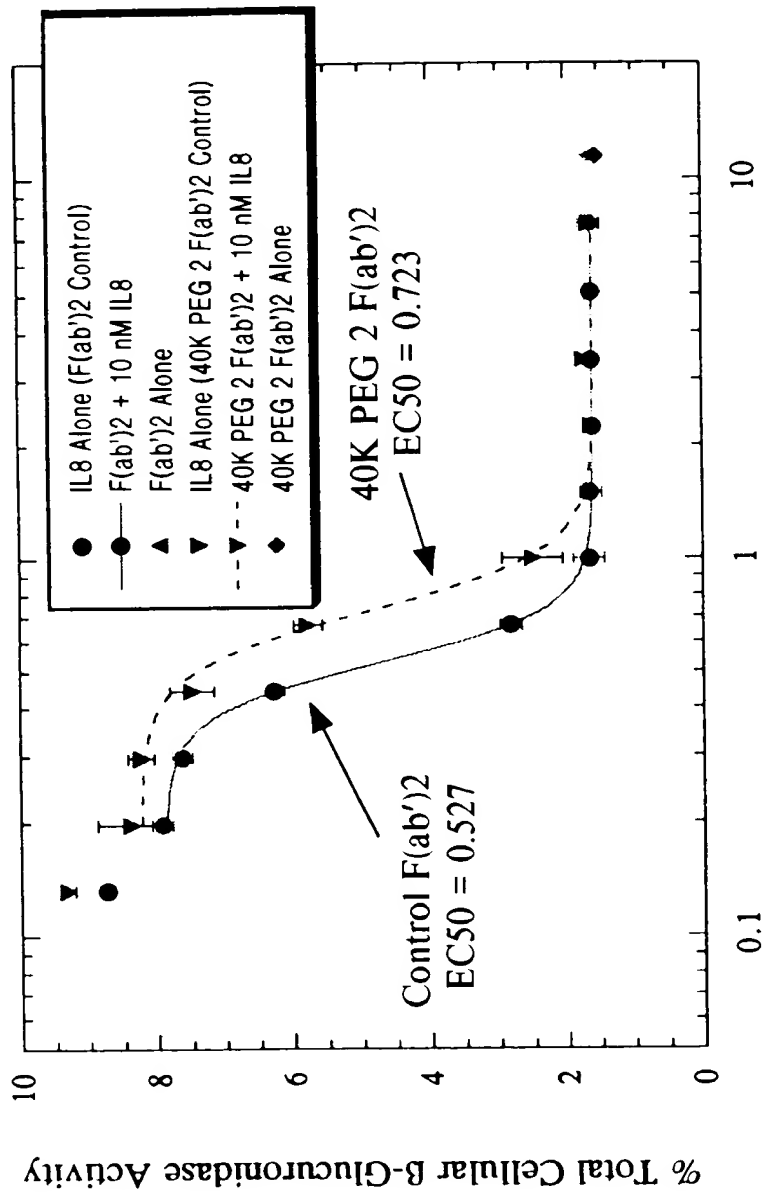


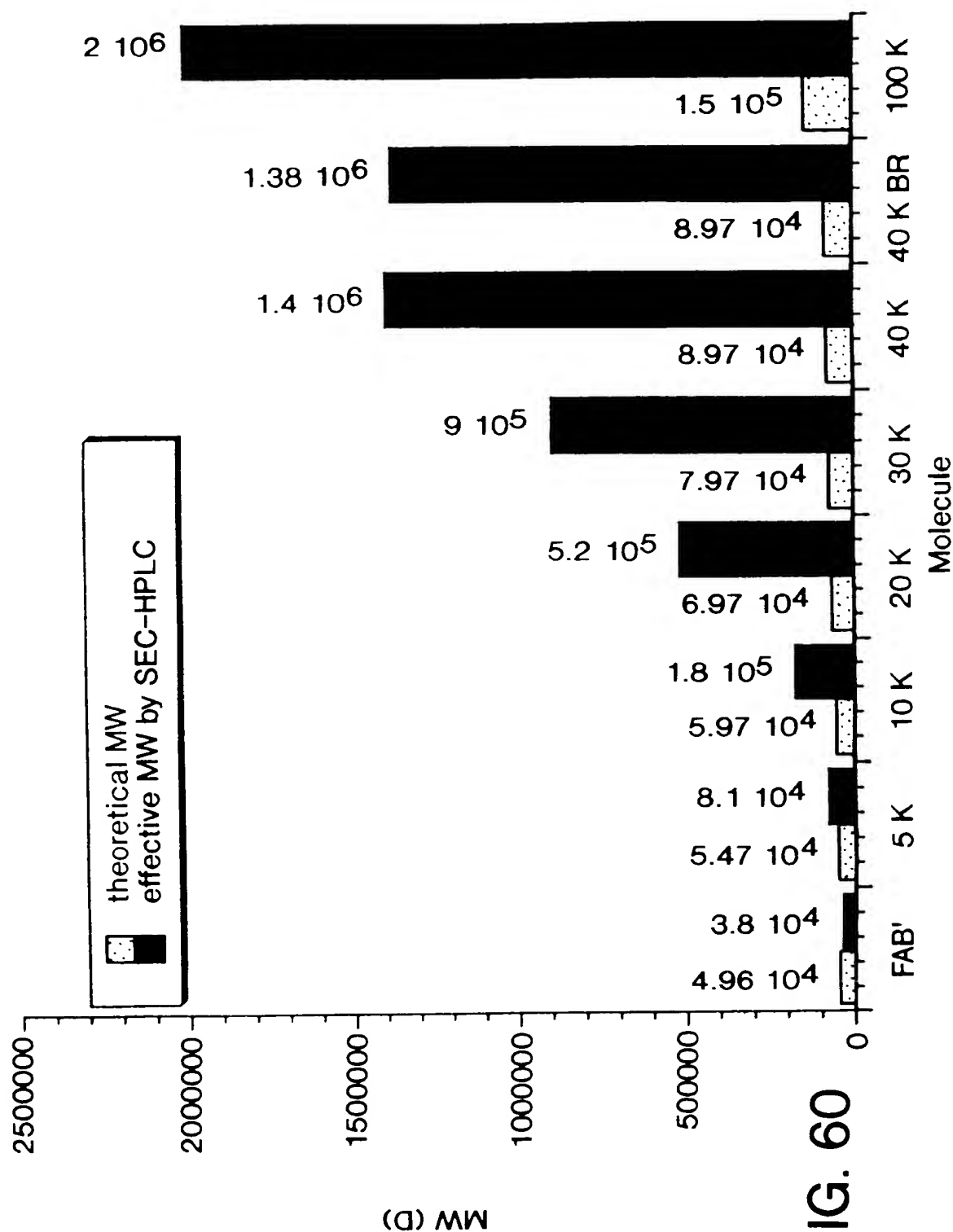
FIG. 59A

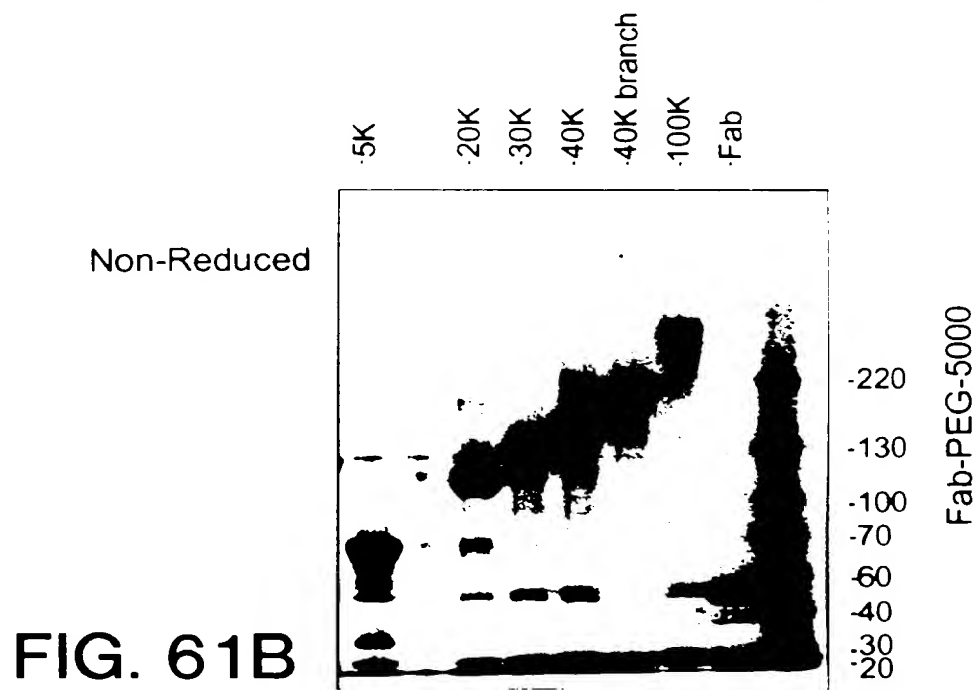
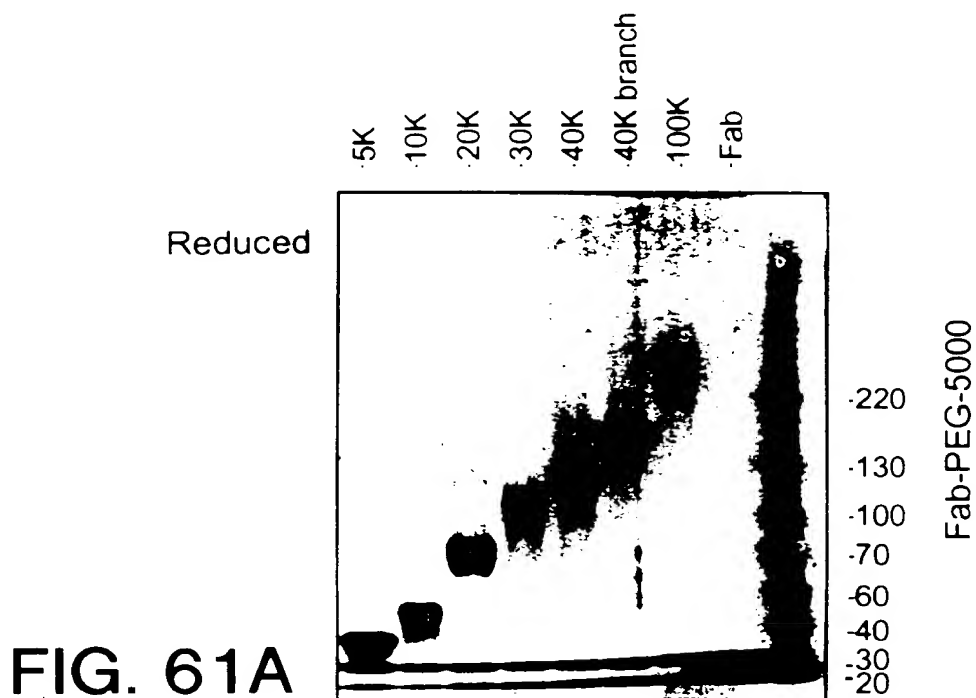


Molar Ratio Antibody:IL8

FIG. 59B

JAN 7 2 2003





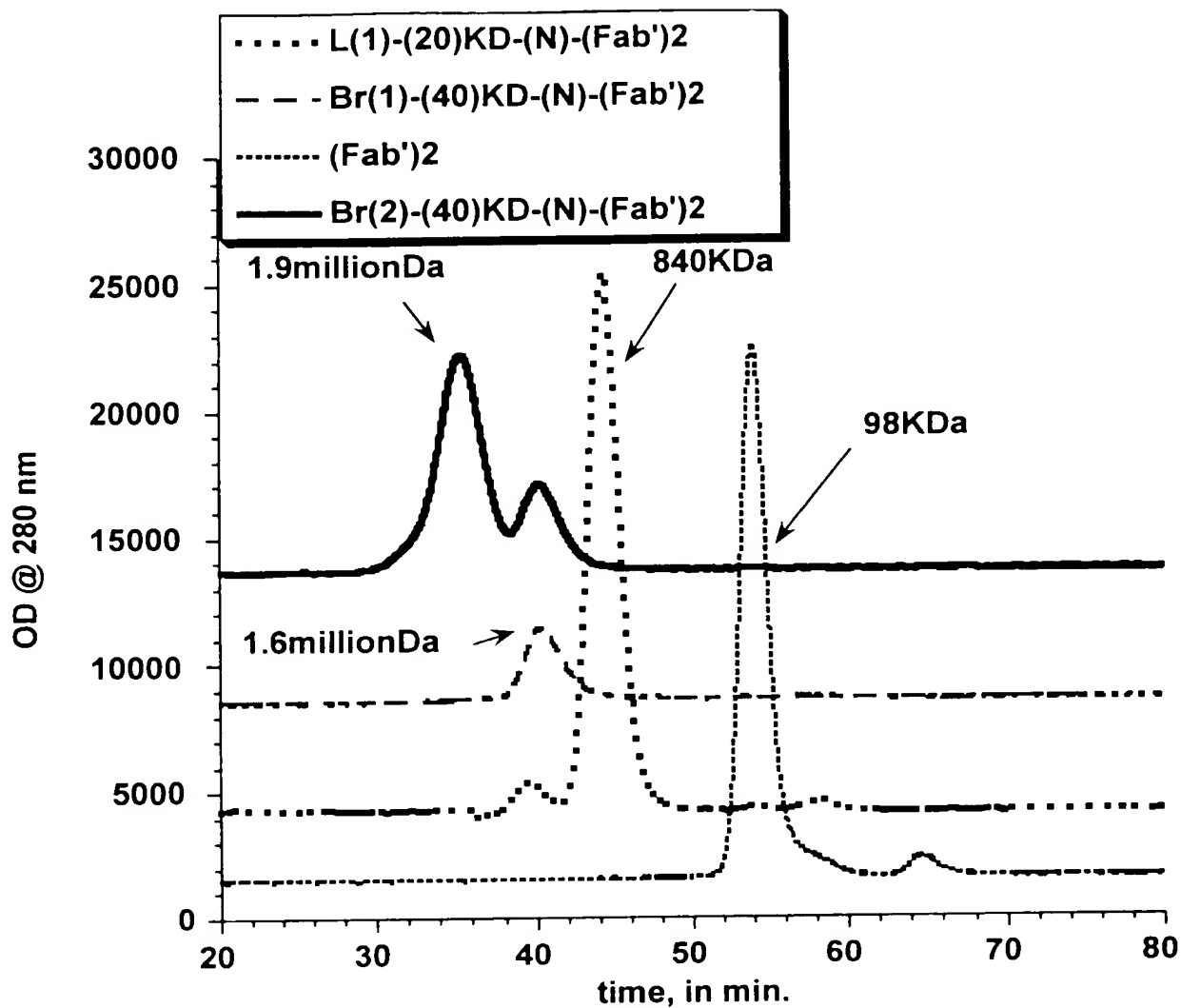


FIG. 62

JAN 7 2003

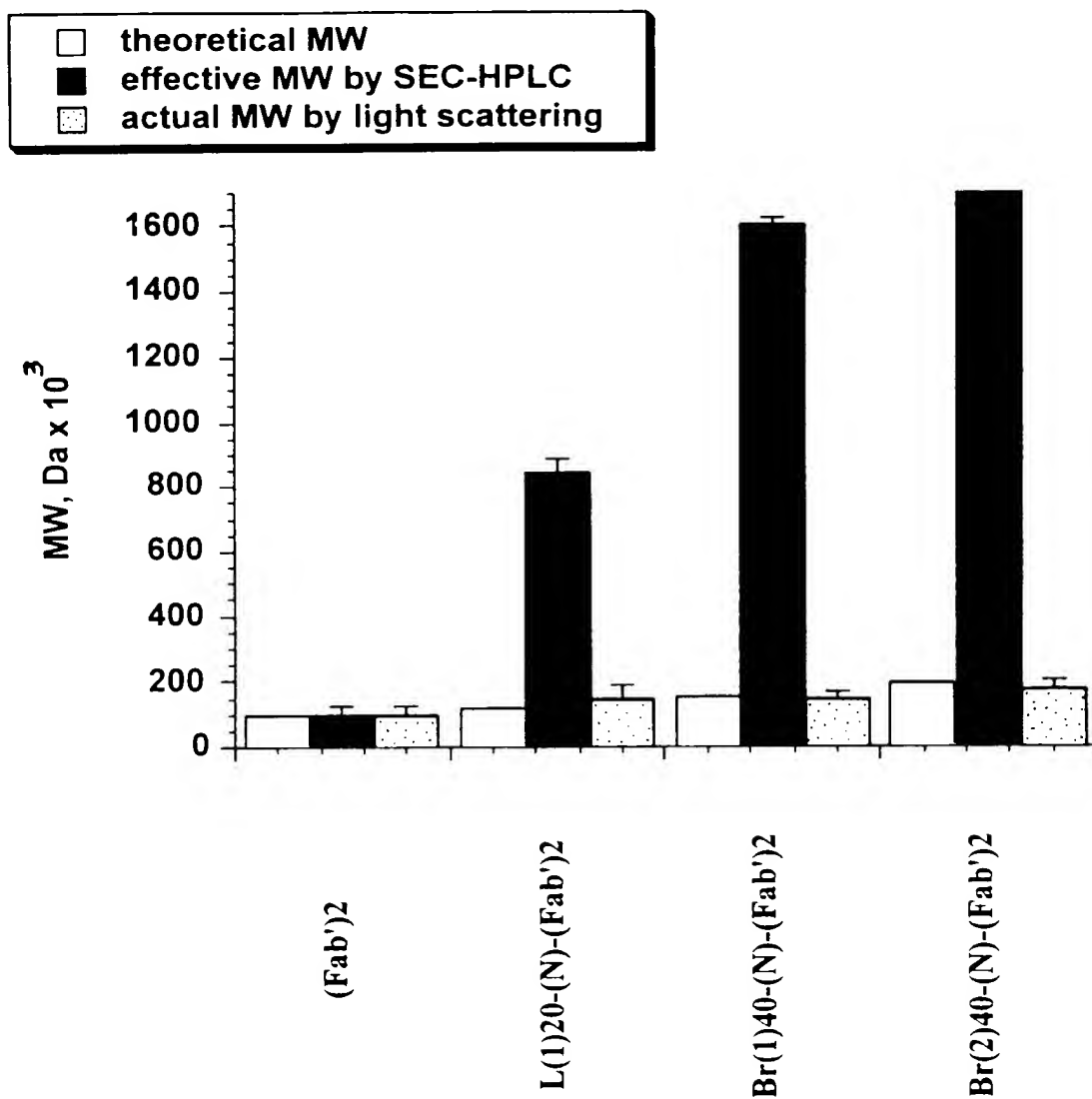


FIG. 63

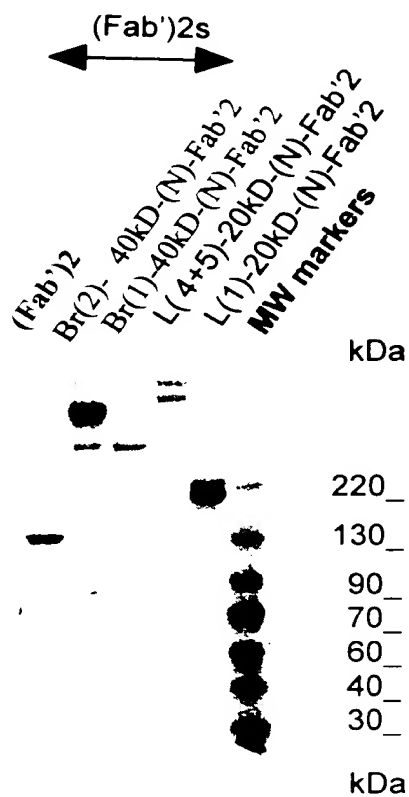


FIG. 64

JAN 7 2003

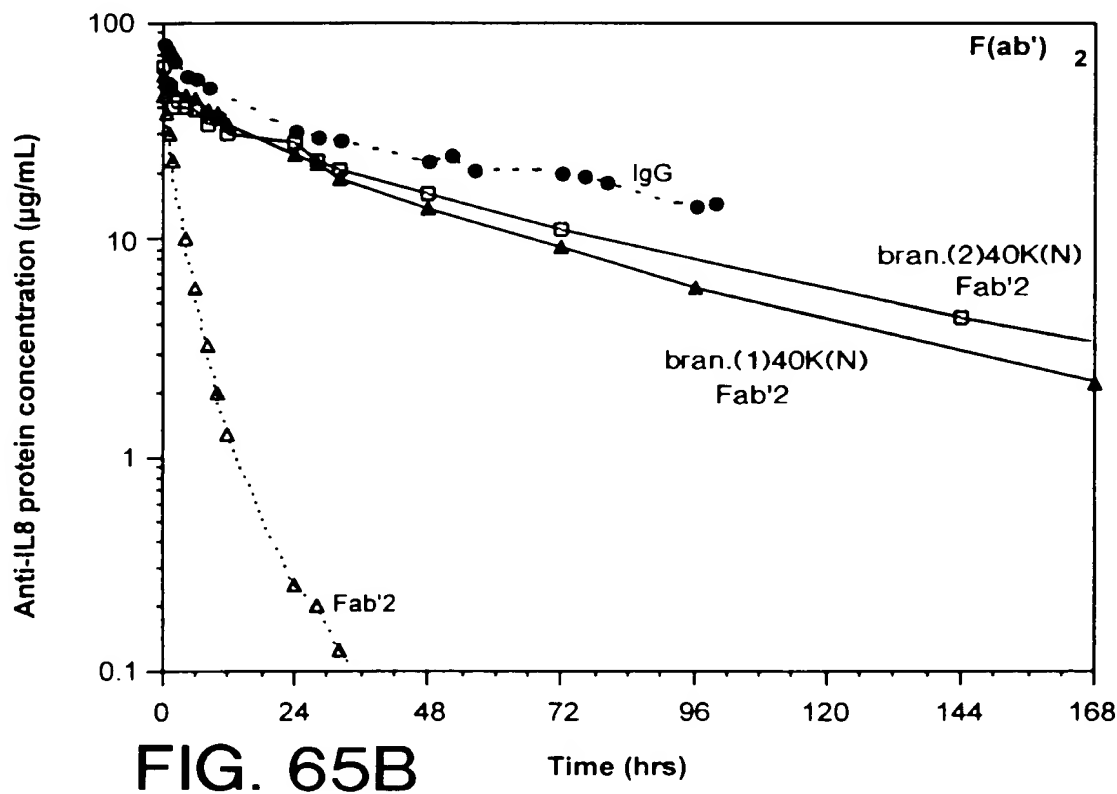
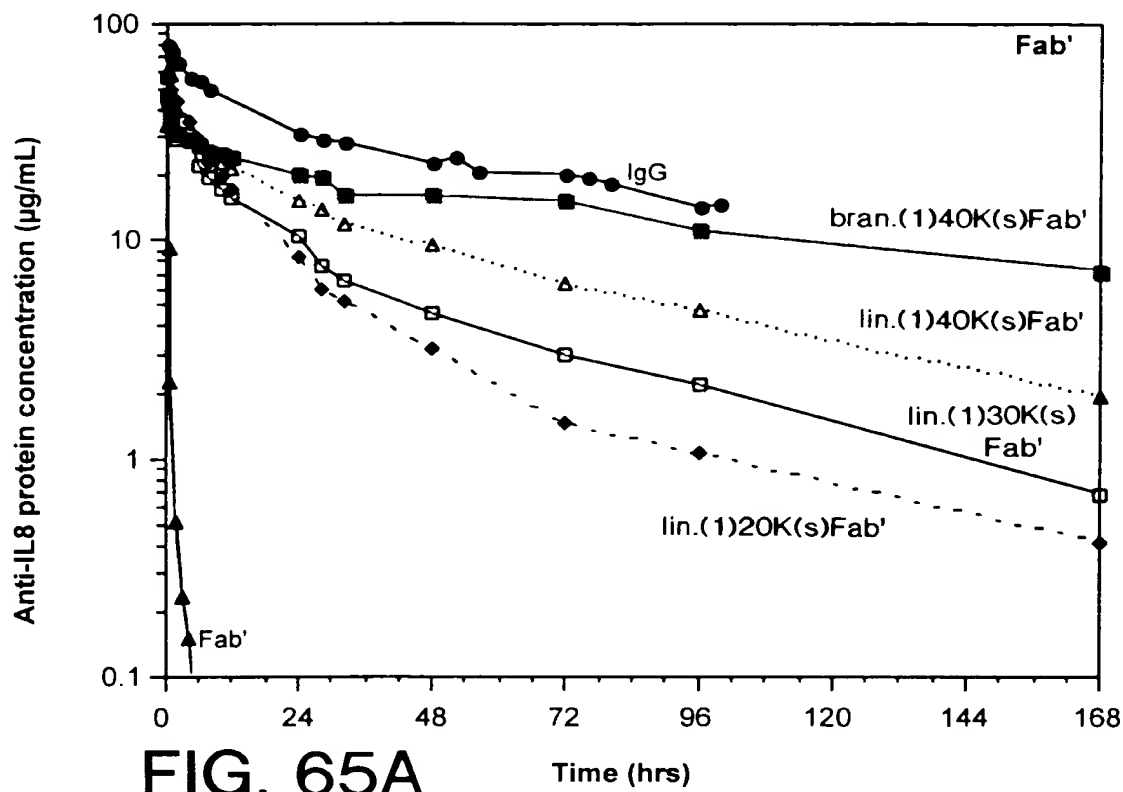


FIG. 66

JAN 27 2003

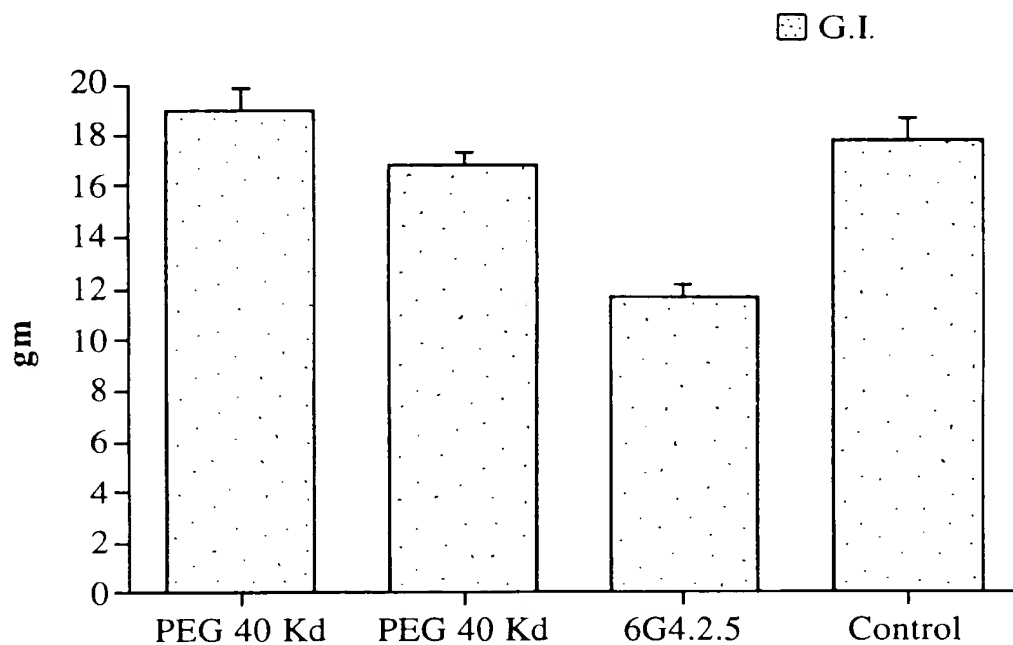


FIG. 67

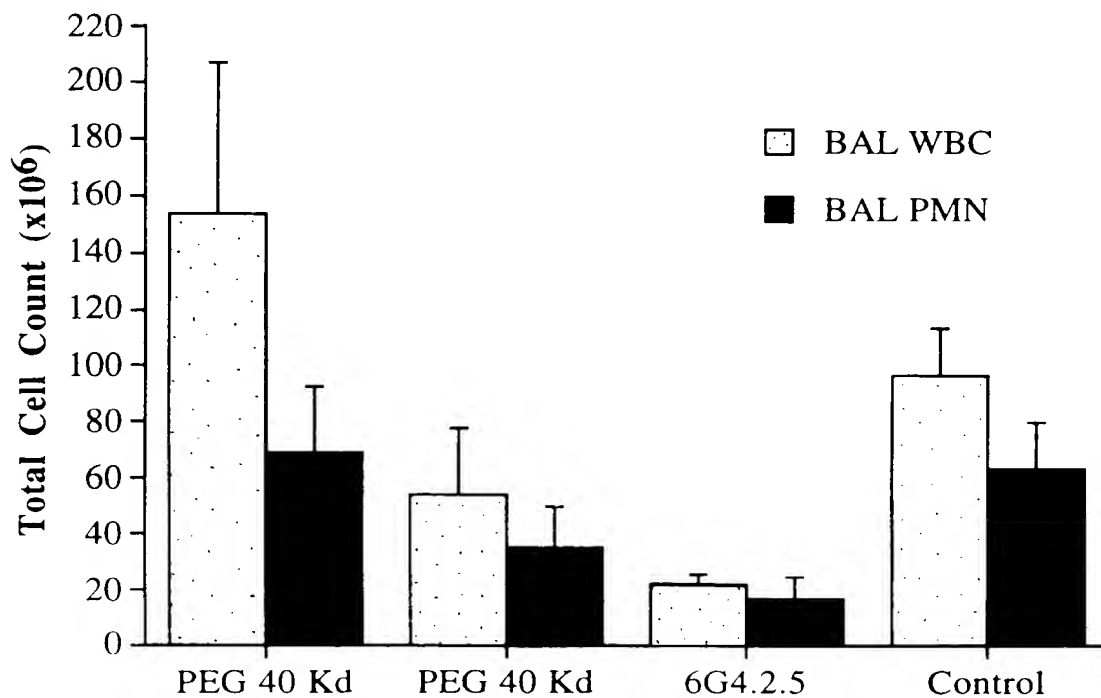


FIG. 68

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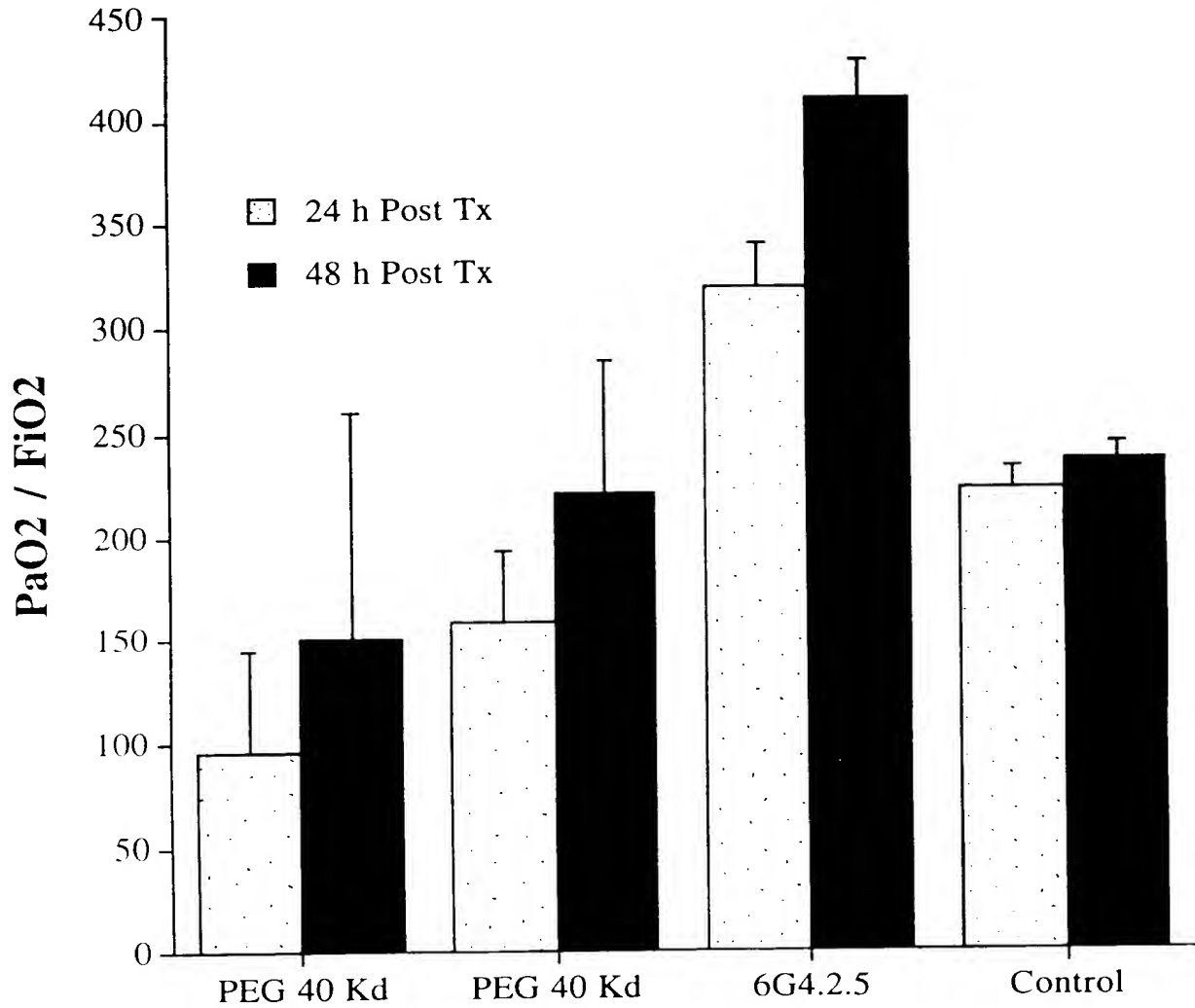


FIG. 69

Oxygenation in 100% O₂ @24 h Post Anti-IL8 Tx

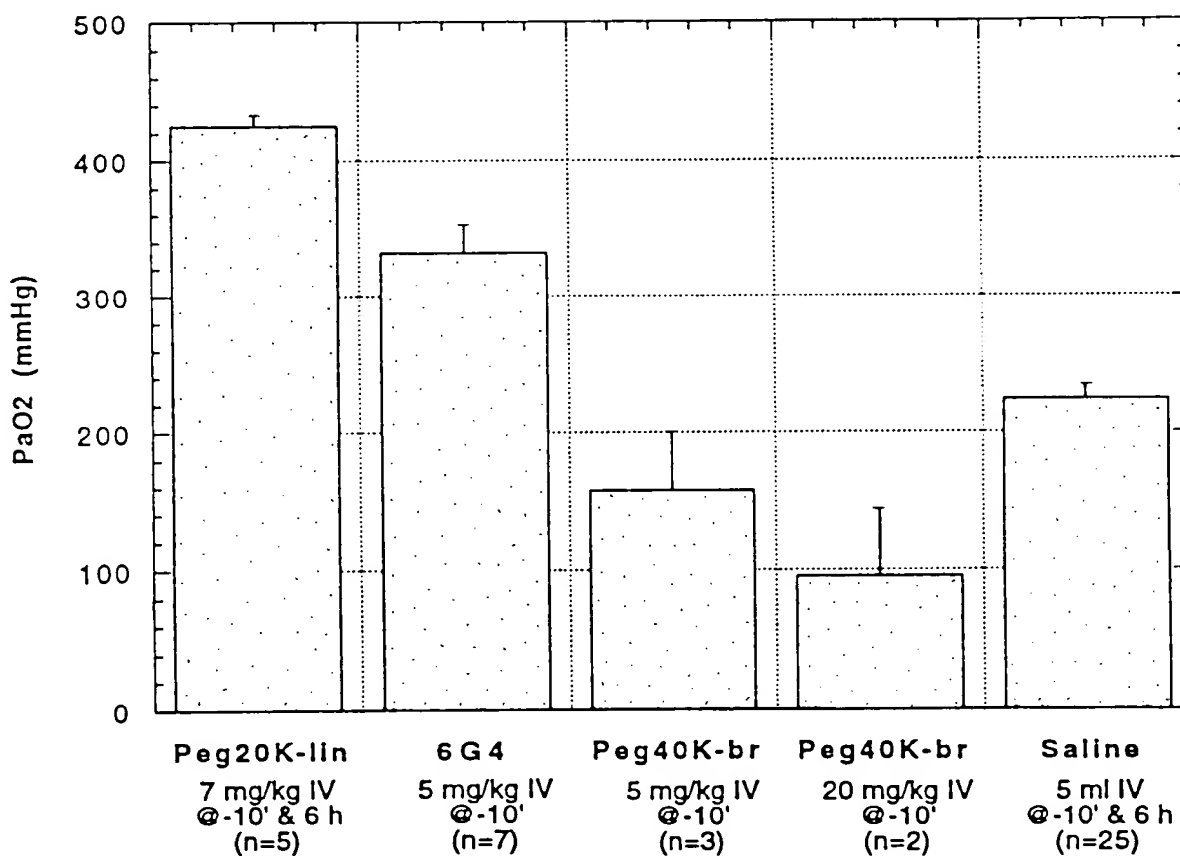


FIG. 70A

JAN 7 2003

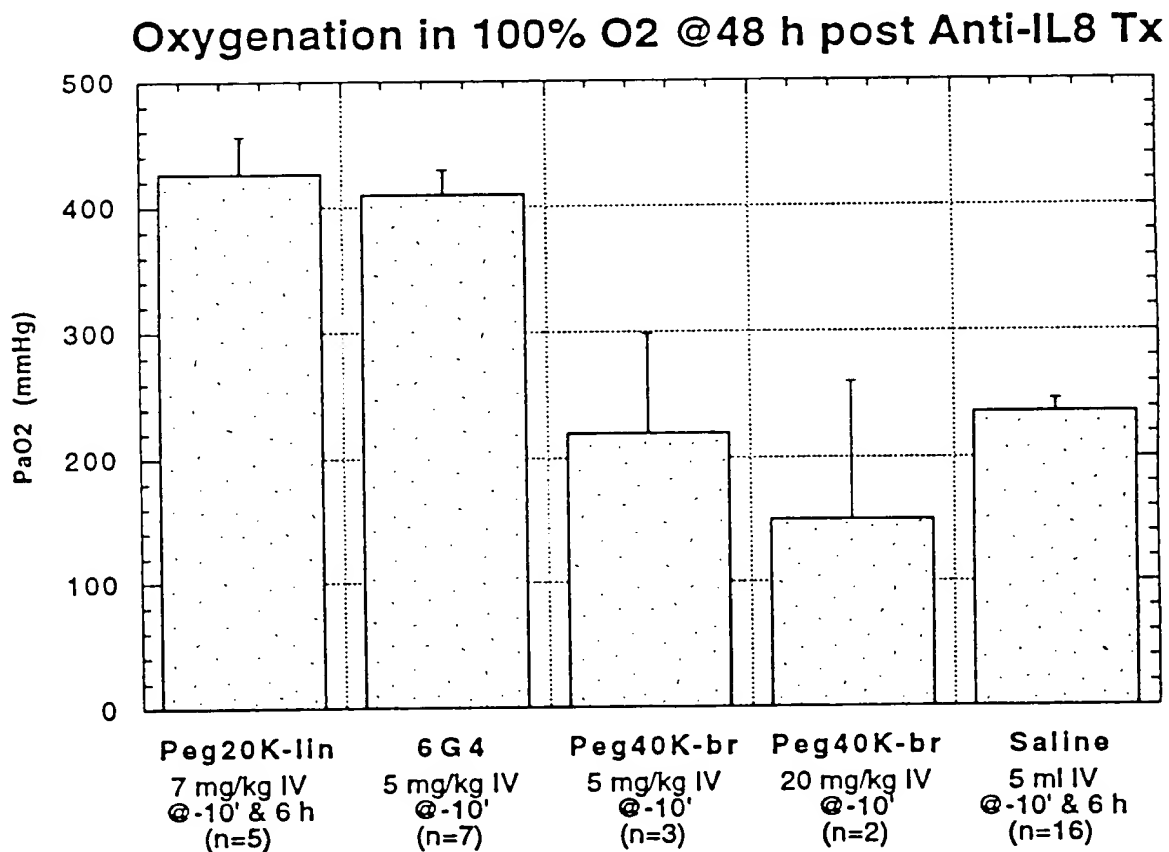


FIG. 70B

JAN 22 2003

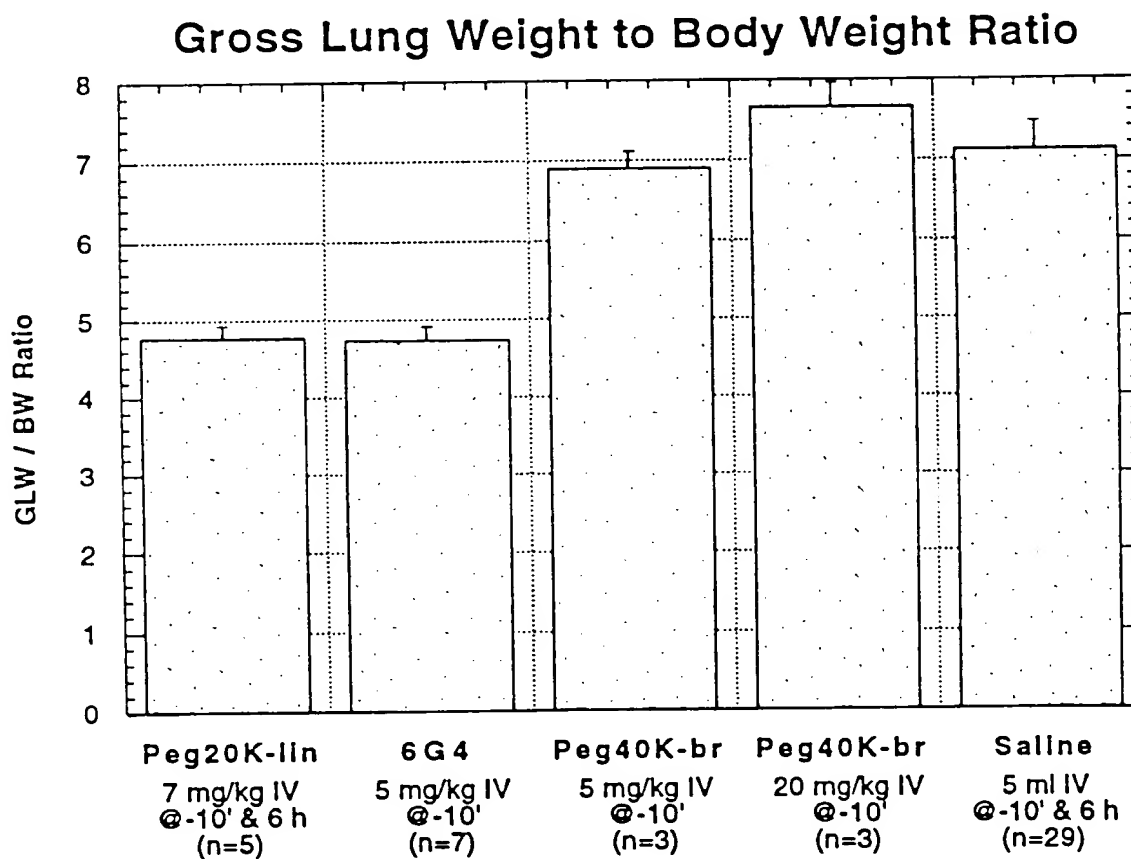


FIG. 70C

Total WBC in BAL Fluid

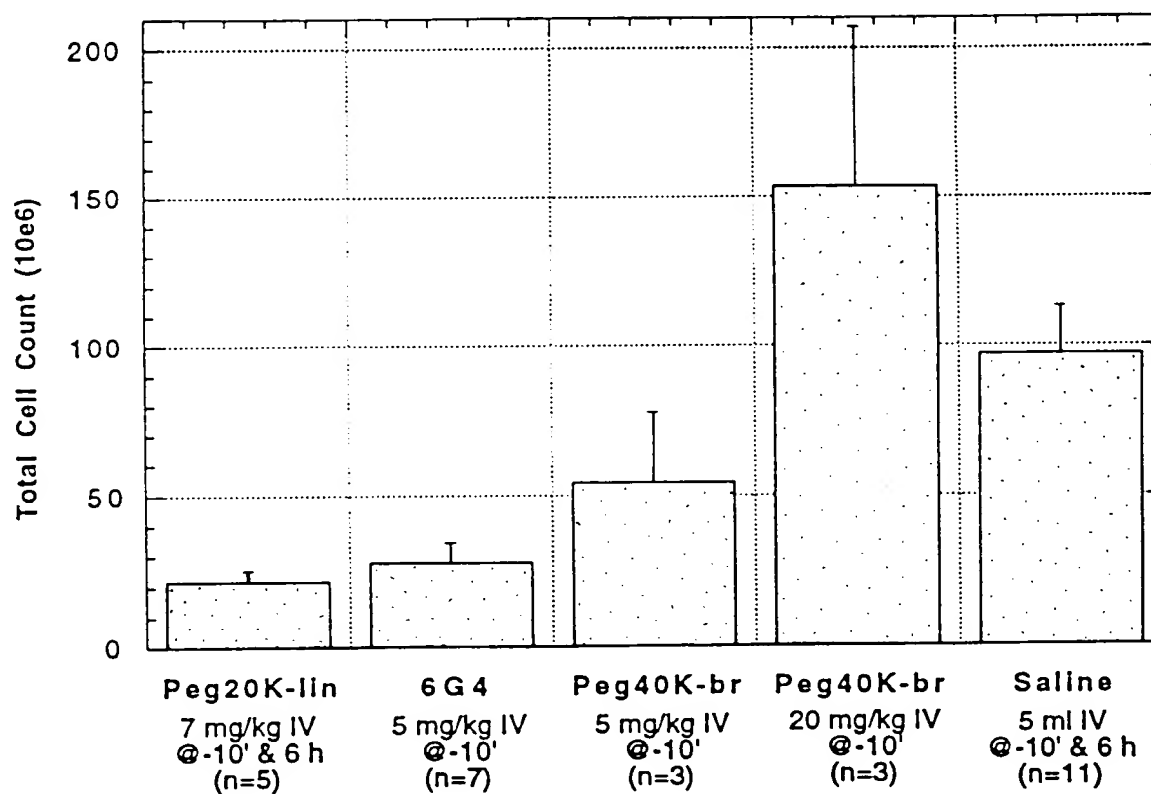
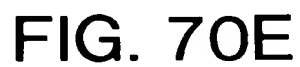


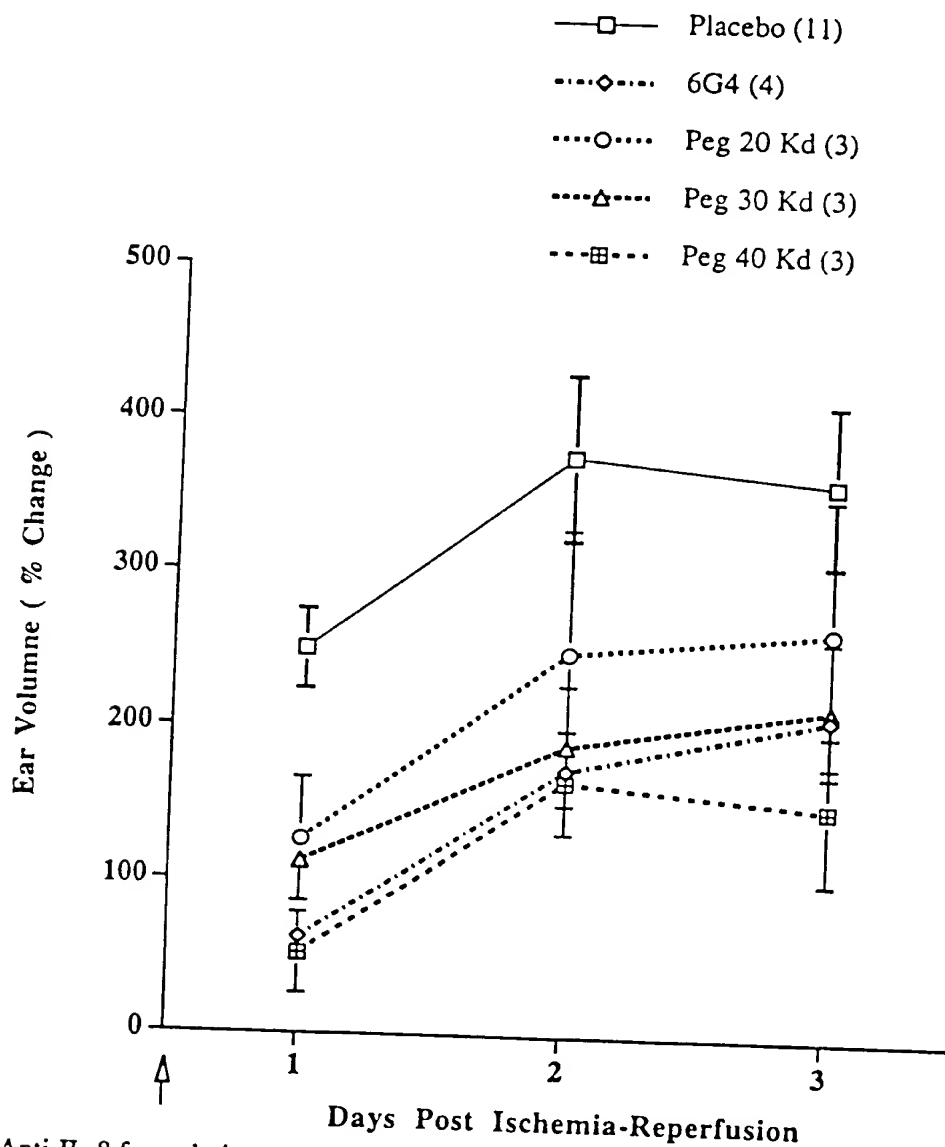
FIG. 70D



JAN 22 2003

Title: Antibody Fragment-Polymer Conjugates and Humanized Anti-IL-8
Monoclonal Antibodies: Inventor: Vanessa H. et al.
Application No.: 09 234,182 (Attorney Docket No. G-100000-093A)
141 141

The Effect of Pegylated Anti-IL-8 in the Rabbit Ear model of Ischemia-Reperfusion Injury



Anti-IL-8 formulations :
Single Dose (5 mg/kg)
administered IV at time
of reperfusion

FIG. 71